## Description of the method

a. We have gathered the data on Chagas publications from Web of Science (WoS) through a standard query. We used the following search strategy to obtain articles' metadata: "TS=Benzinidazol or TS=Benznidazol or TS=Nifurtimox OR TS=Cruzi* OR TS=chagas OR TS=tripanosoma cruzi OR TS=trypanosoma cruzi OR TS=t. Cruzi". It was executed on April 01, 2019 and it brought up 24178 articles published from 1921 through April 01, 2019.

b. We then create a network using these papers as nodes and their "bibliographic coupling" (BC) as links. BC links articles that share common references, and it has been shown to represent a good measure of cognitive similarity (Grauwin and Jensen 2011; Kessler 1963). Here, we link papers when they share at least 3 common references, which avoids artificial links by too common references. This leads to a network of 20066 linked records. A total of 4112 records are discarded at this stage, those that do not share (at least) 3 references with *any other* record in our database. Most discarded records are *not* "articles" and have few references. Among the discarded records are "Meeting Abstracts", "Proceedings Papers", "Corrections", "News Items" or "Editorial Material".

c. On the 20066 nodes of the network, we use the Louvain algorithm (Blondel et al. 2008) to maximize modularity and identify 14 clusters with more than 100 articles, leading to 19403 records. These clusters, defined by shared references, represent the relevant subfields for research in Chagas research. They are presented in the main text as well as in this annex. The reader can check that these clusters do represent the whole field of chagas research as recorded by the Web of Science, and that no spurious cluster (ie foreign to Chagas) is present, which further validates the standard query.

d. For the quantitative analysis, in order to avoid artifacts from too small countries, we keep only countries that have more than 50 records. To avoid setting an arbitrary threshold on the size of the chagas subfields, we keep all the clusters gathering more than 100 articles and use their size as weights in the statistical analysis.

e. Then, we compute the proportion of articles for each country in each cluster. Articles co-authored by several countries are counted once for each country appearing in authors' list. This corresponds to the 'effort' or 'output' that each country devotes to each subfield of chagas research. By normalizing by the corresponding world 'effort', one recovers the well-known "Revealed comparative advantage" (RCA) index introduced by Béla Balassa (Balassa 1965) and widely used to study the relative efforts of countries in different domains, such as exports of different products), or scientific output (May 1997). It is worth emphasizing that this normalization deletes any direct size effect, and gives therefore the same weight in the analysis to all the countries.

f. Finally, we perform a Principal Component Analysis using the FactorMineR package (Le, Josse, and Husson 2008) to find out the main correlations present in the distribution of the countries' RCAs on the different subfields.

g. To determine the number of significant components, we have compared these eigenvalues to those obtained by random permutations of the countries' RCAs over the subfields, therefore destroying the correlations between countries[8]. The rationale for this comparison is the following: it can be assumed that the RCA is the combination of two terms. First, a 'structural' component, linked to the history of the country, its main scientific partners…, which induces correlations among countries. This structural factor is blurred by a 'random' term due to other ingredients, such as

individual decisions, which cannot be accounted for in our analysis. Therefore, only part of the information contained in the countries RCAs will be relevant for determining its position in the 'chagas field'. By simulating 1000 randomized matrices, we computed the probabilities for the actual values to be obtained by a random permutation, showing that only the first two components are significant.

h. **Additional variables**. These additional variables are *not used* to compute the axis of the PCA. They are only projected on the obtained axis, in the same way as the 'active' variables (those describing the subfields RCAs), to further characterize the countries and understand the meaning of the PCA components.

i. ***Researchers (res)***: full time equivalent per million people (2005-2010). Data taken from: "United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics"; 03/02/2015; http://data.worldbank.org/indicator/SP.POP.SCIE.RD.P6/countries

ii. ***Articles (art)***: Publications in natural sciences in 2009. Data taken from: "National Science Foundation, Science and Engineering Indicators", 03/02/2015; http://data.worldbank.org/indicator/IP.JRN.ARTC.SC/countries

iii. ***Articles in WoS (artWoS)***: Total number of articles for year 2013, as recorded by the ISI Web of Science.

iv. ***Chagas articles in WoS (ArtChagas)****: Total number of articles for year 2013, as recorded by the ISI Web of Science gathered with our search strategy (see methodology section).*

v. ***Chagas articles in Scielo (ArtScielo)****: Total number of articles for year 2013, as recorded by the Scielo database gathered with our search strategy (see methodology).*

vi. ***RDGDP***: Public and private expenses for research and development (2005-2010), as a percentage of the country's GDP (RD-GDP) and absolute value (RD) in dollars. Data taken from: "United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics"; 03/02/2015; http://data.worldbank.org/indicator/GB.XPD.RSDV.GD.ZS/countries

vii. ***Htexp***: Exports of high-technology products, in percentage of all exports (2011). Data taken from: "United Nations, Comtrade database".03/02/2015; http://data.worldbank.org/indicator/TX.VAL.TECH.CD/countries

viii. ***PatRes*** and ***PatNonRes***: number of patents (2011). Data taken from "World Intellectual Property Organization (WIPO), World Intellectual Property Indicators www.wipo.int/econ_stat

ix. ***GDP*** : Gross Domestic Product per habitant, a simple indicator of the wealth of the inhabitants of a country; 05/02/2015; Data from: http://es.wikipedia.org/wiki/Anexo:Pa%C3%ADses_por_PIB_(PPA)_per_c

x. %C3%A1pita#cite_note-2

xi. ***Top10*** : The proportion of publications of the country in the 10% most-cited publications (computed for years 2010–2011), data taken from the document "Country and Scientific Regional Production Profiles"; 03/02/2015; http://ec.europa.eu/research/innovation-union/pdf/scientific-production- profiles.pdf

xii. **TcruciPres**: The presence of vectorial transmision of the disease

xiii. **Population:** Country population

xiv. **T. cruzi intensity** (Tcruzint): 0 not endemic, 1 presence of the disease, 2 endemic but controlled, 3 red zone. Source: PAHO 2014

xv. **Infected:** Number of infected persons. http://www.who.int/wer/2015/wer9006.pdf

xvi. **DNDI:** T*otal institutions public and private involved in DNDi initiative:*

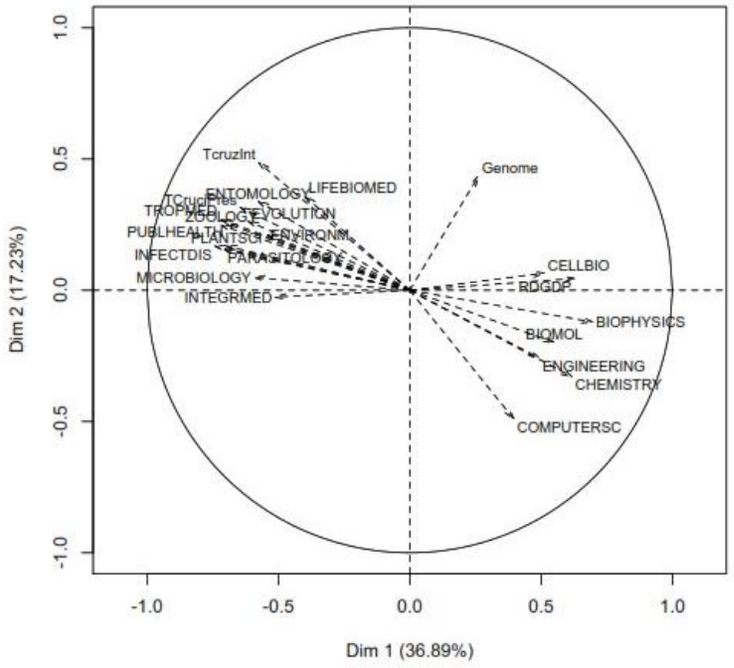
xvii. http://www.dndi.org/partnership/partners/

xviii. **Infected in non endemic countries** *(InfNonEndem): Presence of infected people in non endemic countries*

xix. ***Genome****: Participation in T. cruci genome iniciative.*

*http://www.dbbm.fiocruz.br/TcruziDB/index.html*

**Additional variables PCA Factor map**




***Research Areas:*** for each country, we obtain the percentage of all published articles (not only in Chagas) in the different Research areas as defined by Web of Science. We study Research Areas for Chagas for 2015 in the world publications, which gather more than 95% of the records. Data have been retrieved on De.c 4th, 2015, by queries such as (CU=Argentina AND PY=2015) and using "analyze by Research Area". The list of the top Research Areas with their labels ARE: (PARASITOLOGY, Parasitology), (TROPMED, Tropical Medicine), (BIOMOL, Biochemistry & Molecular Biology), (IMMUNO, Immonulogy), (PHARMA, Pharmacology), (INFECTDIS, Infectious Diseases); (PUBLHEALTH, Public, Environmental $ Occupational Health), (MICROBIOLOGY, Microbiology), (CHEMISTRY, Chemistry), (CARDIOLOGY, cardiac & Cardiovascular Systems), (CELLBIO, Cell Biology), (GENERMED, Medicine, General & Internal), (LIFEBIOMED, Life Sciences, Biomedicine & Other Topics), (RESEARCHMED, Medicine, Research & Experimental), (SCTECHOTHER, Science Technology Other Topics), (ZOOLOGY, Zoology), (BIOPHYSICS, Biophysics), (VETERINARY, Veterinary sciences), (HEMATOLOGY, Hematology), (ENTOMOLOGY, Entomology), (PATHOLOGY, Pathology), (GENETIC, Genetics & Heredity), (PLANTSCI, Plant Sciences), (NEUROLOGY, Neurology), (BIOTECH, Biotechnology & Applied Microbiology), (PHYSIOLOGY, Physiology), (GASTROHEP, Gastroenterology & Hepatology), (SURGERY, Surgery), (ENDOCRIN, Endocrinology & Metabolism), (TRANSPLANT, Transplantation), (TOXICOLOGY, Toxicology), (ENGINEERING, Engineering), (INTEGRMED, Integrative & Complementary Medicine), (ENVIRONM, Environmental Sciencies), (VIROLOGY, Virology), (ONCOLOGY, Oncology), (MEDLABTECH, Medical Laboratory Technology), (CRYSTALLOGRAPHY, Crystallography), (COMPUTERSC, Computer Science, Software Engineering) (MATHBIO, Mathematical & Computational Biology), (EVOLUTION, Evolutionary Biology).

References: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Kessler, M M. 1963. “Bibliographic Coupling between Scientific Papers.” *American Documentation* 14 (1): 10–25. https://doi.org/10.1002/asi.5090140103.

Le, Sebastien, Julie Josse, and Francois Husson. 2008. “FactoMineR: An R Package for Multivariate Analysis.” *Journal of Statistical Software* 25 (1): 1–18.

May, R M. 1997. “The Scientific Wealth of Nations.” *Science* 275: 793–96.

# Clusters ID Cards

This document gathers the "ID Cards" of the BC clusters found within the studied database.
The BC network was built by linking pairs of publications based on the references they share. We only kept links between publications sharing more than 3 references - 20066 out of 24178 publications are in the network. The 14 clusters presented here correspond to the ones found in the top level grouping at least 100 publications. They gather a total of 19403 publications.
These ID cards displays the most frequent keywords, subject categories, journals of publication, institutions, countries, authors, references and reference journals of the publications of each cluster. The significance of an item $\sigma = \sqrt{N}(f-p)/\sqrt{p(1-p)}$ - where N is the number of publications within the cluster and f and p are the proportion of publications respectively within the cluster and within the database displaying that item - is also given.

Cluster 1 (“CardioCAR”). This cluster contains N= 3008 publications.

| Keywords | f(%) | σ |
|---|---|---|
| CHAGAS-DISEASE | 24.37 | 4.41 |
| TRYPANOSOMA-CRUZI | 17.32 | -9.83 |
| TRYPANOSOMA-CRUZI INFEC-TION | 11.07 | 10.53 |
| BENZNIDAZOLE | 10.80 | 29.39 |
| CARDIOMYOPATHY | 8.64 | 16.66 |
| IN-VITRO | 8.64 | 5.68 |
| HEART-DISEASE | 7.55 | 18.37 |
| UNITED-STATES | 6.68 | 14.59 |
| CHEMOTHERAPY | 6.48 | 12.92 |
| TRANSMISSION | 6.42 | 6.04 |
| INFECTION | 6.35 | -1.64 |
| DISEASE | 6.05 | 6.87 |
| POLYMERASE-CHAIN-REACTION | 5.92 | 11.19 |
| DIAGNOSIS | 5.85 | 11.55 |
| CHRONIC CHAGAS-DISEASE | 4.82 | 12.17 |
| MORTALITY | 4.49 | 19.82 |
| DRUGS | 3.79 | 7.10 |
| FOLLOW-UP | 3.62 | 16.23 |
| RISK | 3.29 | 11.51 |
| DERIVATIVES | 3.26 | 1.86 |
| **Title Words** | **f(%)** | **σ** |
| CHAGAS | 42.65 | 32.60 |
| DISEASE | 37.63 | 30.00 |
| CRUZI | 22.54 | -4.17 |
| TRYPANOSOMA | 22.04 | -6.87 |
| PATIENTS | 10.57 | 15.43 |
| CHRONIC | 9.14 | 12.04 |
| ACTIVITY | 8.54 | 7.82 |
| TREATMENT | 8.05 | 20.24 |
| HEART | 7.81 | 18.18 |
| INFECTION | 7.45 | -2.57 |
| **Journal** | **f(%)** | **σ** |
| PLOS NEGLECT TROP D | 6.02 | 14.65 |
| INT J CARDIOL | 3.46 | 17.76 |
| AM J TROP MED HYG | 3.39 | 0.93 |
| REV SOC BRAS MED TRO | 3.26 | 7.78 |
| ANTIMICROB AGENTS CH | 2.56 | 10.86 |
| ARQ BRAS CARDIOL | 2.09 | 13.75 |
| MEM I OSWALDO CRUZ | 2.09 | -4.23 |
| EUR J MED CHEM | 1.93 | 7.99 |
| ACTA TROP | 1.86 | 0.05 |
| J MED CHEM | 1.40 | 5.37 |

| Institution | f(%) | σ |
|---|---|---|
| FAC MED | 13.16 | 7.27 |
| SCH MED | 10.34 | 7.19 |
| UNIV SAO PAULO | 8.94 | 1.55 |
| UNIV FED MINAS GERAIS | 7.35 | 6.83 |
| BUENOS AIRES | 6.85 | 7.21 |
| BELO HORIZONTE | 6.22 | 7.42 |
| HOSP CLIN | 5.78 | 20.48 |
| DEPT MED | 4.42 | 3.15 |
| DEPT PARASITOL | 4.22 | -0.68 |
| DEPT CHEM | 3.99 | 4.10 |
| FUNDACAO OSWALDO CRUZ | 3.96 | 3.12 |
| INST OSWALDO CRUZ | 3.52 | -3.27 |
| DIV CARDIOL | 3.36 | 16.82 |
| FIOCRUZ MS | 3.26 | -2.78 |
| DEPT INTERNAL MED | 3.19 | 9.05 |
| FAC FARM | 3.19 | 7.96 |
| DEPT MICROBIOL | 3.03 | 2.92 |
| FAC CIENCIAS | 2.56 | -1.10 |
| DEPT QUIM | 2.49 | 4.47 |
| DEPT INFECT DIS | 2.39 | 12.54 |
| **Country** | **f(%)** | **σ** |
| Brazil | 39.43 | 3.62 |
| USA | 24.24 | -1.74 |
| Spain | 14.00 | 18.70 |
| Argentina | 12.63 | -3.04 |
| UK | 5.88 | -2.20 |
| Switzerland | 5.82 | 12.48 |
| Colombia | 3.86 | 4.46 |
| Mexico | 3.86 | 0.71 |
| Venezuela | 3.82 | 0.83 |
| Italy | 3.26 | 6.50 |
| **Author** | **f(%)** | **σ** |
| Ribeiro ALP | 2.69 | 20.02 |
| Gascon J | 2.09 | 15.39 |
| Bestetti RB | 1.76 | 11.71 |
| Rocha MOC | 1.53 | 10.91 |
| Sanchez-Moreno M | 1.53 | 11.90 |
| Hotez PJ | 1.50 | 15.16 |
| Marin C | 1.46 | 12.51 |
| Bern C | 1.33 | 8.71 |
| Pinazo MJ | 1.33 | 12.37 |
| Soeiro MDC | 1.33 | 12.69 |

| Reference | f(%) | σ |
|---|---|---|
| Rassi A, 2010, LANCET, 375, 1388 | 16.66 | 34.04 |
| Bern C, 2007, JAMA-J AM MED ASSOC, 298, 2171 | 9.57 | 33.92 |
| Viotti R, 2006, ANN INTERN MED, 144, 724 | 9.28 | 36.61 |
| Coura JR, 2002, MEM I OSWALDO CRUZ, 97, 3 | 8.88 | 24.57 |
| Prata A, 2001, Lancet Infect Dis, 1, 92 | 7.48 | 21.41 |
| Schmunis GA, 2010, ACTA TROP, 115, 14 | 6.91 | 23.30 |
| Bern C, 2009, CLIN INFECT DIS, 49, E52 | 6.48 | 27.44 |
| Marin JA, 2007, CIRCULATION, 115, 1109 | 6.22 | 20.69 |
| Morillo CA, 2015, NEW ENGL J MED, 373, 1295 | 6.12 | 27.06 |
| Rassi A, 2006, NEW ENGL J MED, 355, 799 | 5.92 | 28.37 |
| Schmunis GA, 2007, MEM I OSWALDO CRUZ, 102, 75 | 5.75 | 22.59 |
| Molina I, 2014, NEW ENGL J MED, 370, 1899 | 5.65 | 28.84 |
| Castro JA, 2006, HUM EXP TOXICOL, 25, 471 | 5.35 | 21.17 |
| Deandrade ALSS, 1996, LANCET, 348, 1407 | 5.25 | 25.12 |
| Viotti R, 2009, EXPERT REV ANTI-INFE, 7, 157 | 4.75 | 25.01 |
| Urbina JA, 2003, TRENDS PARASITOL, 19, 495 | 4.72 | 13.69 |
| Urbina JA, 2010, ACTA TROP, 115, 55 | 4.69 | 19.82 |
| Estani SS, 1998, AM J TROP MED HYG, 59, 526 | 4.52 | 23.65 |
| Bern C, 2011, CLIN MICROBIOL REV, 24, 655 | 4.09 | 15.80 |
| Viotti R, 1994, AM HEART J, 127, 151 | 3.89 | 16.89 |
| **RefJournal** | **f(%)** | **σ** |
| MEM I OSWALDO CRUZ | 48.87 | 20.77 |
| AM J TROP MED HYG | 41.22 | 10.82 |
| PLOS NEGLECT TROP D | 40.46 | 33.89 |
| LANCET | 39.33 | 33.37 |
| ACTA TROP | 35.44 | 13.85 |
| NEW ENGL J MED | 34.77 | 39.56 |
| ANTIMICROB AGENTS CH | 32.35 | 29.22 |
| CLIN INFECT DIS | 27.19 | 37.21 |
| CIRCULATION | 25.50 | 28.15 |
| T ROY SOC TROP MED H | 22.54 | 3.74 |
| **Subject** | **f(%)** | **σ** |
| Tropical Medicine | 20.58 | 5.33 |
| Parasitology | 18.68 | -5.97 |
| Infectious Diseases | 15.72 | 13.72 |
| Cardiac & Cardiovascular Systems | 14.86 | 26.42 |
| Pharmacology & Pharmacy | 11.57 | 15.10 |
| Chemistry, Medicinal | 10.74 | 11.99 |
| Microbiology | 9.21 | 5.60 |
| Public, Environmental & Occupational Health | 7.25 | 0.27 |
| Immunology | 5.75 | -8.65 |
| Biochemistry & Molecular Biology | 4.92 | -15.65 |

Cluster 2 (“IFN-IMM”). This cluster contains N= 2855 publications.

| Keywords | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 21.44 | -4.51 |
| MICE | 20.39 | 33.80 |
| TRYPANOSOMA-CRUZI INFECTION | 18.28 | 26.02 |
| CHAGAS-DISEASE | 17.27 | -5.01 |
| IFN-GAMMA | 12.40 | 37.25 |
| INFECTION | 10.75 | 7.55 |
| T-CELLS | 10.54 | 31.07 |
| EXPRESSION | 10.26 | 10.35 |
| INTERFERON-GAMMA | 9.32 | 31.27 |
| NITRIC-OXIDE | 9.18 | 25.13 |
| CARDIOMYOPATHY | 9.04 | 17.41 |
| ACTIVATION | 7.11 | 18.65 |
| TUMOR-NECROSIS-FACTOR | 6.41 | 25.45 |
| IMMUNE-RESPONSE | 6.37 | 19.06 |
| CELLS | 6.23 | 9.57 |
| NECROSIS-FACTOR-ALPHA | 6.16 | 26.11 |
| MACROPHAGES | 6.06 | 17.51 |
| DISEASE | 5.92 | 6.32 |
| RESISTANCE | 5.57 | 10.69 |
| IN-VIVO | 5.53 | 14.60 |

| Title Words | f(%) | σ |
|---|---|---|
| TRYPANOSOMA | 37.65 | 11.96 |
| CRUZI | 34.29 | 10.28 |
| INFECTION | 24.34 | 29.41 |
| CHAGAS | 20.56 | 1.81 |
| DISEASE | 19.58 | 3.58 |
| MICE | 12.68 | 22.00 |
| CELLS | 12.36 | 27.55 |
| CHRONIC | 10.40 | 14.96 |
| T | 8.41 | 28.34 |
| EXPERIMENTAL | 8.20 | 16.62 |

| Journal | f(%) | σ |
|---|---|---|
| INFECT IMMUN | 5.53 | 17.35 |
| J IMMUNOL | 4.34 | 16.72 |
| MEM I OSWALDO CRUZ | 2.80 | -2.07 |
| EXP PARASITOL | 2.77 | 0.53 |
| PLOS NEGLECT TROP D | 2.52 | 1.38 |
| MICROBES INFECT | 2.42 | 14.33 |
| PLOS ONE | 2.28 | 3.76 |
| PARASITOL RES | 2.21 | 2.27 |
| PARASITE IMMUNOL | 2.03 | 11.92 |
| FRONT IMMUNOL | 1.86 | 13.94 |

| Institution | f(%) | σ |
|---|---|---|
| UNIV SAO PAULO | 14.08 | 11.53 |
| SCH MED | 11.98 | 10.45 |
| DEPT PATHOL | 11.14 | 21.10 |
| FAC MED | 10.75 | 2.65 |
| UNIV FED MINAS GERAIS | 9.70 | 12.60 |
| DEPT MED | 8.48 | 15.05 |
| BELO HORIZONTE | 7.60 | 11.17 |
| DEPT IMMUNOL | 7.15 | 21.37 |
| INST OSWALDO CRUZ | 6.48 | 4.20 |
| FIOCRUZ MS | 6.23 | 5.14 |
| UNIV FED RIO DE JANEIRO | 5.32 | 0.61 |
| DEPT MICROBIOL & IMMUNOL | 4.66 | 14.26 |
| DEPT PARASITOL | 4.41 | -0.17 |
| INST CIENCIAS BIOL | 4.31 | 10.09 |
| FUNDACAO OSWALDO CRUZ | 4.20 | 3.82 |
| CTR PESQUISAS RENE RACHOU | 3.85 | 7.73 |
| INST BIOFIS CARLOS CHAGAS FILHO | 3.82 | 3.99 |
| BUENOS AIRES | 3.61 | -1.60 |
| DEPT BIOCHEM & IMMUNOL | 3.50 | 18.79 |
| DEPT BIOQUIM & IMUNOL | 3.29 | 10.42 |

| Country | f(%) | σ |
|---|---|---|
| Brazil | 42.77 | 7.23 |
| USA | 29.18 | 4.35 |
| Argentina | 12.75 | -2.78 |
| France | 6.62 | 2.19 |
| Germany | 4.97 | 4.88 |
| Spain | 3.82 | -4.80 |
| Mexico | 2.91 | -2.03 |
| UK | 2.66 | -8.94 |
| Belgium | 2.49 | 3.56 |
| Japan | 2.45 | 3.11 |

| Author | f(%) | σ |
|---|---|---|
| Tanowitz HB | 3.85 | 19.24 |
| Gazzinelli RT | 3.50 | 21.89 |
| Silva JS | 2.42 | 16.11 |
| Weiss LM | 2.17 | 15.42 |
| Tarleton RL | 1.93 | 9.06 |
| Savino W | 1.82 | 15.86 |
| Teixeira MM | 1.82 | 14.66 |
| Correa-Oliveira R | 1.79 | 13.92 |
| Cunha-Neto E | 1.79 | 14.32 |
| Kalil J | 1.72 | 15.26 |

| Reference | f(%) | σ |
|---|---|---|
| Gazzinelli RT, 1992, EUR J IMMUNOL, 22, 2501 | 8.69 | 36.10 |
| Vespa GNR, 1994, INFECT IMMUN, 62, 5177 | 7.74 | 32.87 |
| Tarleton RL, 1992, NATURE, 356, 338 | 7.22 | 31.63 |
| Silva JS, 1992, J EXP MED, 175, 169 | 6.80 | 32.09 |
| Silva JS, 1995, INFECT IMMUN, 63, 4862 | 6.34 | 30.28 |
| Torrico F, 1991, J IMMUNOL, 146, 3626 | 5.95 | 30.76 |
| Reis DD, 1993, AM J TROP MED HYG, 48, 637 | 5.81 | 29.26 |
| Aliberti JCS, 1996, INFECT IMMUN, 64, 1961 | 5.71 | 28.54 |
| Brener Z, 1997, INT ARCH ALLERGY IMM, 114, 103 | 5.64 | 24.90 |
| Tarleton RL, 1990, J IMMUNOL, 144, 717 | 5.64 | 27.71 |
| Brener Z, 1962, REV INST MED TROP SAO PAULO, 4, 389 | 5.46 | 10.77 |
| Cardillo F, 1996, INFECT IMMUN, 64, 128 | 5.46 | 29.18 |
| Reed SG, 1988, J IMMUNOL, 140, 4342 | 5.46 | 26.03 |
| Gomes JAS, 2003, INFECT IMMUN, 71, 1185 | 5.01 | 26.47 |
| Munozfernandez MA, 1992, EUR J IMMUNOL, 22, 301 | 4.97 | 26.81 |
| Koberle F, 1968, Advances in Parasitology, 6, 63 | 4.94 | 14.31 |
| Holscher C, 1998, INFECT IMMUN, 66, 1208 | 4.90 | 26.37 |
| Silva JS, 1991, J EXP MED, 174, 539 | 4.90 | 25.82 |
| Tanowitz HB, 1992, CLIN MICROBIOL REV, 5, 400 | 4.90 | 18.82 |
| Campos MA, 2001, J IMMUNOL, 167, 416 | 4.41 | 23.80 |

| RefJournal | f(%) | σ |
|---|---|---|
| J IMMUNOL | 71.07 | 63.02 |
| INFECT IMMUN | 68.34 | 54.35 |
| J EXP MED | 54.99 | 47.03 |
| P NATL ACAD SCI USA | 48.76 | 16.88 |
| EUR J IMMUNOL | 45.78 | 66.69 |
| NATURE | 43.64 | 17.19 |
| AM J TROP MED HYG | 39.33 | 8.38 |
| SCIENCE | 36.01 | 11.63 |
| EXP PARASITOL | 35.45 | 6.22 |
| J INFECT DIS | 35.10 | 29.54 |

| Subject | f(%) | σ |
|---|---|---|
| Immunology | 40.53 | 51.90 |
| Parasitology | 21.37 | -2.42 |
| Infectious Diseases | 14.22 | 10.51 |
| Tropical Medicine | 10.47 | -9.21 |
| Microbiology | 9.11 | 5.23 |
| Cell Biology | 8.34 | 9.78 |
| Biochemistry & Molecular Biology | 7.01 | -12.14 |
| Cardiac & Cardiovascular Systems | 6.76 | 5.26 |
| Medicine, Research & Experimental | 5.78 | 8.65 |
| Multidisciplinary Sciences | 3.82 | 1.49 |

Cluster 3 (“AbodyPAR”). This cluster contains N= 2110 publications.

| Keywords | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 7.77 | -18.35 |
| CHAGAS-DISEASE | 5.12 | -17.99 |
| MICE | 5.02 | -1.36 |
| ANTIBODIES | 4.12 | 5.27 |
| INFECTION | 3.93 | -5.69 |
| IDENTIFICATION | 3.13 | -5.27 |
| PROTEINS | 2.80 | 1.58 |
| ANTIGENS | 2.65 | 4.17 |
| EXPERIMENTAL CHAGAS-DISEASE | 2.65 | 4.25 |
| EXPRESSION | 2.61 | -6.21 |
| CELLS | 2.56 | -1.48 |
| RESISTANCE | 2.51 | 0.14 |
| MONOCLONAL-ANTIBODY | 1.99 | 7.81 |
| CRUZI | 1.85 | -6.12 |
| MONOCLONAL-ANTIBODIES | 1.71 | 5.05 |
| PURIFICATION | 1.66 | -1.67 |
| DISEASE | 1.61 | -5.07 |
| TRYPOMASTIGOTES | 1.61 | 2.99 |
| INVITRO | 1.56 | 1.08 |
| SERA | 1.56 | 7.60 |

| Title Words | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 49.62 | 54.66 |
| CHAGAS-DISEASE | 12.89 | 20.84 |
| MICE | 12.84 | 19.29 |
| TRYPANOSOMA | 10.57 | -17.54 |
| INFECTION | 10.05 | 2.07 |
| CRUZI | 9.86 | -16.79 |
| EXPERIMENTAL | 6.82 | 10.56 |
| FORMS | 6.26 | 16.61 |
| INFECTED | 5.83 | 8.81 |
| ANTIBODIES | 5.64 | 14.32 |

| Journal | f(%) | σ |
|---|---|---|
| EXP PARASITOL | 6.68 | 11.73 |
| AM J TROP MED HYG | 5.50 | 6.36 |
| J PARASITOL INFECT | 5.31 | 16.06 |
| IMMUN MEDICINA- | 4.55 | 11.24 |
| BUENOS AIRE J | 4.50 | 10.34 |
| IMMUNOL | 4.03 | 12.98 |
| MOL BIOCHEM PARASIT | 3.84 | 3.57 |
| J PROTOZOOL | 3.65 | 13.50 |
| T ROY SOC TROP MED H | 3.13 | 7.28 |
| MEM I OSWALDO CRUZ | 2.70 | -2.03 |

| Institution | f(%) | σ |
|---|---|---|
| FAC MED | 7.44 | -2.96 |
| SCH MED | 7.39 | 0.72 |
| UNIV SAO PAULO | 6.40 | -2.97 |
| DEPT PARASITOL | 5.69 | 2.68 |
| UNIV BUENOS AIRES | 5.36 | 1.99 |
| UNIV FED RIO DE JANEIRO | 5.17 | 0.19 |
| MICHIGAN STATE UNIV | 4.22 | 21.26 |
| DEPT IMMUNOL | 4.08 | 7.80 |
| DEPT BIOL | 3.84 | 2.41 |
| UNIV FED MINAS GERAIS | 3.79 | -1.99 |
| DEPT MICROBIOL & PUBL HLTH | 3.70 | 25.90 |
| INST PASTEUR | 3.46 | 9.15 |
| DEPT MED | 2.94 | -1.13 |
| DEPT PATHOL | 2.84 | -2.07 |
| NIAID | 2.65 | 10.20 |
| WAKE FOREST UNIV | 2.65 | 15.82 |
| DEPT BIOQUIM | 2.56 | 1.66 |
| DEPT MICROBIOL | 2.23 | -0.03 |
| INST QUIM | 2.23 | 0.88 |
| E LANSING | 2.18 | 19.97 |

| Country | f(%) | σ |
|---|---|---|
| Brazil | 30.00 | -5.98 |
| USA | 26.54 | 0.96 |
| Argentina | 15.69 | 1.43 |
| France | 6.07 | 0.78 |
| UK | 5.97 | -1.69 |
| Venezuela | 4.12 | 1.44 |
| Spain | 2.32 | -7.03 |
| Mexico | 1.56 | -5.05 |
| Japan | 1.33 | -1.33 |
| Fed Rep Ger | 1.09 | 5.85 |

| Author | f(%) | σ |
|---|---|---|
| Kierszenbaum F | 5.36 | 26.91 |
| Desouza W | 3.70 | 21.27 |
| Kuhn RE | 2.65 | 18.15 |
| Brener Z | 2.04 | 14.81 |
| Colli W | 1.99 | 10.63 |
| Capron A | 1.75 | 15.07 |
| Segura EL | 1.71 | 5.92 |
| Cappa SMG | 1.56 | 11.37 |
| Dvorak JA | 1.42 | 12.62 |
| Villalta F | 1.42 | 5.70 |

| Reference | f(%) | σ |
|---|---|---|
| Laemmli UK, 1970, NATURE, 227, 680 | 12.27 | 21.89 |
| Silva LHP, 1953, FOLIA CLIN BIOL, 20, 191 | 8.86 | 21.33 |
| Camargo EP, 1964, Revista do Instituto de Medicina Tropical de Sao Paulo, 6, 93 | 8.34 | 14.70 |
| Lowry OH, 1951, J BIOL CHEM, 193, 265 | 8.10 | 17.99 |
| Brener Z, 1973, ANNU REV MICROBIOL, 27, 347 | 8.06 | 17.40 |
| Towbin H, 1979, P NATL ACAD SCI USA, 76, 4350 | 6.92 | 20.71 |
| Brener Z, 1980, Advances in Parasitology, 18, 247 | 6.49 | 26.68 |
| Krettli AU, 1976, J IMMUNOL, 116, 755 | 6.16 | 25.79 |
| Cossio PM, 1974, CIRCULATION, 49, 13 | 5.26 | 24.81 |
| Krettli AU, 1982, J IMMUNOL, 128, 2009 | 5.26 | 22.44 |
| Snary D, 1979, FEBS LETT, 100, 166 | 4.79 | 28.39 |
| Brener Z, 1963, Rev Inst Med Trop Sao Paulo, 5, 220 | 4.41 | 15.27 |
| Szarfman A, 1982, J EXP MED, 155, 1161 | 4.36 | 24.15 |
| Wood JN, 1982, NATURE, 296, 34 | 4.31 | 24.67 |
| Nogueira N, 1981, J EXP MED, 153, 629 | 4.27 | 25.87 |
| Nogueira N, 1975, J EXP MED, 142, 224 | 4.22 | 22.87 |
| Ramos C, 1979, J IMMUNOL, 122, 1243 | 4.17 | 25.23 |
| Brener Z, 1962, REV INST MED TROP SAO PAULO, 4, 389 | 4.12 | 5.23 |
| Trischmann T, 1978, EXP PARASITOL, 45, 160 | 4.12 | 19.41 |
| Kierszenbaum F, 1976, J IMMUNOL, 116, 1208 | 4.08 | 22.35 |

| RefJournal | f(%) | σ |
|---|---|---|
| EXP PARASITOL | 49.15 | 19.06 |
| J IMMUNOL | 47.30 | 27.87 |
| J PARASITOL | 44.22 | 31.98 |
| NATURE | 42.18 | 13.29 |
| J EXP MED | 40.19 | 23.39 |
| AM J TROP MED HYG | 37.87 | 5.76 |
| INFECT IMMUN | 37.30 | 13.60 |
| J PROTOZOOL | 34.93 | 34.70 |
| J BIOL CHEM | 27.16 | -5.68 |
| T ROY SOC TROP MED H | 25.88 | 6.97 |

| Subject | f(%) | σ |
|---|---|---|
| Parasitology | 33.41 | 11.01 |
| Immunology | 21.75 | 16.62 |
| Tropical Medicine | 20.09 | 3.87 |
| Biochemistry & Molecular Biology | 10.57 | -5.87 |
| Public, Environmental & Occupational Health | 10.33 | 5.74 |
| Medicine, General & Internal | 6.30 | 5.68 |
| Infectious Diseases | 5.97 | -4.42 |
| Microbiology | 4.60 | -3.81 |
| Cell Biology | 4.50 | -0.06 |
| Zoology | 4.17 | 6.24 |

Cluster 4 (“VecTRO”). This cluster contains N= 2012 publications.

| Keywords | f(%) | σ |
|---|---|---|
| CHAGAS-DISEASE | 29.97 | 9.76 |
| REDUVIIDAE | 20.33 | 47.83 |
| TRANSMISSION | 14.76 | 23.59 |
| TRYPANOSOMA-CRUZI | 14.61 | -10.85 |
| HEMIPTERA | 13.87 | 39.68 |
| POPULATIONS | 9.39 | 26.70 |
| RHODNIUS-PROLIXUS | 9.24 | 24.07 |
| TRIATOMA-INFESTANS | 7.50 | 22.42 |
| ARGENTINA | 7.21 | 20.78 |
| INFECTION | 7.06 | -0.11 |
| VECTORS | 6.36 | 24.82 |
| INFESTANS | 6.21 | 27.14 |
| BRAZIL | 5.52 | 11.39 |
| TRYPANOSOMA-CRUZI INFEC-TION | 5.52 | -1.58 |
| VECTOR | | |
| HETEROPTERA | 5.52 | 19.79 |
| EVOLUTION | 5.42 | 26.94 |
| CHAGAS-DISEASE VECTOR | 4.77 | 9.82 |
| UNITED-STATES | 4.72 | 21.66 |
| MEXICO | 4.52 | 5.75 |
| Title Words | 4.17 | 20.30 |
| TRIATOMA | f(%) | σ |
| DISEASE | 31.61 | 70.87 |
| CHAGAS | 30.12 | 15.58 |
| REDUVIIDAE | 30.07 | 12.34 |
| HEMIPTERA | 24.65 | 65.10 |
| INFESTANS | 23.51 | 63.40 |
| TRYPANOSOMA | 14.66 | 46.91 |
| CRUZI | 14.07 | -13.62 |
| VECTOR | 13.87 | -12.29 |
| TRIATOMINAE | 13.52 | 37.92 |
| Journal | 13.02 | 48.71 |
| MEM I OSWALDO CRUZ | f(%) | σ |
| J MED ENTOMOL | 12.67 | 22.31 |
| AM J TROP MED HYG | 7.06 | 34.11 |
| ACTA TROP | 6.91 | 9.87 |
| REV SOC BRAS MED TRO | 5.02 | 10.56 |
| PLOS NEGLECT TROP D | 4.97 | 12.63 |
| INFECT GENET EVOL | 4.72 | 7.97 |
| PARASITE VECTOR | 3.48 | 15.95 |
| MED VET ENTOMOL | 2.93 | 12.26 |
| J INSECT PHYSIOL | 2.39 | 19.88 |
| | 1.59 | 12.53 |

| Institution | f(%) | σ |
|---|---|---|
| FIOCRUZ MS | 8.90 | 10.21 |
| UNIV BUENOS AIRES | 8.90 | 9.63 |
| FAC MED | 8.65 | -1.03 |
| INST OSWALDO CRUZ | 8.60 | 7.97 |
| BUENOS AIRES | 7.95 | 8.36 |
| DEPT BIOL | 7.65 | 12.46 |
| FAC CIENCIAS EXACTAS & NAT | 6.71 | 15.35 |
| DEPT CIENCIAS BIOL | 6.66 | 19.64 |
| FAC CIENCIAS | 6.26 | 9.00 |
| CTR PESQUISAS RENE RACHOU | 5.07 | 10.50 |
| DEPT PARASITOL | 4.72 | 0.52 |
| DEPT ENTOMOL | 4.62 | 22.47 |
| INST BIOL | 4.22 | 10.54 |
| FUNDACAO OSWALDO CRUZ | 3.93 | 2.48 |
| BELO HORIZONTE | 3.73 | 0.14 |
| CNRS | 3.18 | 4.09 |
| UNIV ESTADUAL PAULISTA | 3.18 | 13.58 |
| BR-30190002 BELO HORIZONTE | 3.13 | 9.43 |
| LAB ECOEPIDEMIOL | 3.08 | 19.60 |
| CONSEJO NACL INVEST CIENT & TECN | 3.03 | 3.48 |
| Country | f(%) | σ |
| Brazil | 31.46 | -4.48 |
| USA | 27.34 | 1.76 |
| Argentina | 22.02 | 9.44 |
| Mexico | 11.28 | 18.42 |
| France | 9.24 | 6.93 |
| UK | 6.61 | -0.52 |
| Colombia | 5.32 | 7.79 |
| Bolivia | 4.03 | 9.51 |
| Chile | 3.23 | 1.32 |
| Guatemala | 2.93 | 17.50 |
| Author | f(%) | σ |
| Gurtler RE | 5.27 | 27.24 |
| Diotaiuti L | 3.58 | 25.56 |
| Lazzari CR | 2.73 | 23.10 |
| Galvao C | 2.63 | 22.18 |
| Da Rosa JA | 2.58 | 19.69 |
| Dujardin JP | 2.29 | 19.82 |
| Cecere MC | 2.14 | 20.04 |
| Dias JCP | 2.14 | 11.87 |
| Kitron U | 2.14 | 17.98 |
| Panzera F | 2.09 | 20.33 |

| Reference | f(%) | σ |
|---|---|---|
| Lent H, 1979, Bulletin of the American Museum of Natural History, 163, 123 | 19.53 | 54.33 |
| Schofield CJ, 2006, TRENDS PARASITOL, 22, 583 | 7.90 | 20.90 |
| Dias JCP, 2002, MEM I OSWALDO CRUZ, 97, 603 | 7.21 | 18.77 |
| Galvao Cleber, 2003, Zootaxa, 202, 1 | 7.16 | 32.79 |
| Schofield CJ, 1994, TRIATOMINAE BIOL CON | 6.76 | 32.22 |
| Schofield CJ, 2009, ACTA TROP, 110, 88 | 6.46 | 31.52 |
| Gurtler RE, 2007, P NATL ACAD SCI USA, 104, 16194 | 5.67 | 27.91 |
| Lent H, 1979, Bulletin of the American Museum of Natural History, 163, 125 | 5.17 | 25.97 |
| Picollo MI, 2005, J MED ENTOMOL, 42, 637 | 4.97 | 27.63 |
| Zeledon R, 1981, ANNU REV ENTOMOL, 26, 101 | 4.52 | 24.58 |
| Cohen JE, 2001, SCIENCE, 293, 694 | 4.47 | 23.02 |
| Gurtler RE, 2004, B WORLD HEALTH ORGAN, 82, 196 | 4.37 | 27.54 |
| Marcilla A, 2001, MOL PHYLOGENET EVOL, 18, 136 | 4.13 | 26.53 |
| Panzera F, 2004, EMERG INFECT DIS, 10, 438 | 4.13 | 26.35 |
| Dumonteil E, 2002, AM J TROP MED HYG, 67, 176 | 3.88 | 23.59 |
| Forattini O P, 1980, Rev Saude Publica, 14, 265 | 3.83 | 23.41 |
| Hypsa V, 2002, MOL PHYLOGENET EVOL, 23, 447 | 3.83 | 24.76 |
| Lyman DE, 1999, AM J TROP MED HYG, 60, 377 | 3.78 | 24.95 |
| Bargues MD, 2008, PLOS NEGLECT TROP D, 2, 0 | 3.73 | 24.23 |
| Schofield CJ, 1999, ADV PARASIT, 42, 1 | 3.68 | 17.73 |
| RefJournal | f(%) | σ |
| MEM I OSWALDO CRUZ | 71.17 | 38.56 |
| J MED ENTOMOL | 55.86 | 83.98 |
| AM J TROP MED HYG | 55.82 | 22.88 |
| ACTA TROP | 47.51 | 23.91 |
| MED VET ENTOMOL | 33.50 | 67.29 |
| T ROY SOC TROP MED H | 32.21 | 13.93 |
| PLOS NEGLECT TROP D | 28.38 | 13.35 |
| Bulletin of the American Museum of Natural History | 24.80 | 60.57 |
| INFECT GENET EVOL | 24.50 | 34.94 |
| EMERG INFECT DIS | 24.06 | 32.93 |
| Subject | f(%) | σ |
| Tropical Medicine | 42.10 | 30.09 |
| Parasitology | 33.95 | 11.32 |
| Entomology | 17.20 | 47.04 |
| Public, Environmental & Occupational Health | 14.26 | 12.47 |
| Veterinary Sciences | 13.82 | 35.12 |
| Infectious Diseases | 12.33 | 5.80 |
| Zoology | 4.57 | 7.33 |
| Biochemistry & Molecular Biology | 4.08 | -13.86 |
| Multidisciplinary Sciences | 2.78 | -1.34 |
| Genetics & Heredity | 2.73 | 6.18 |

Cluster 5 (“DrugsBIOCHEM”). This cluster contains N= 1695 publications.

| Keywords | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 39.88 | 14.04 |
| CHAGAS-DISEASE | 17.46 | -3.66 |
| DERIVATIVES | 13.51 | 27.41 |
| IN-VITRO | 10.91 | 8.15 |
| CRITHIDIA-FASCICULATA | 8.20 | 24.90 |
| CRYSTAL-STRUCTURE | 8.08 | 16.71 |
| DRUGS | 8.08 | 18.00 |
| METABOLISM | 7.91 | 18.67 |
| CHEMOTHERAPY | 6.67 | 10.17 |
| TRYPANOTHIONE REDUCTASE | 6.67 | 24.35 |
| INHIBITORS | 6.37 | 11.37 |
| AGENTS | 6.08 | 17.33 |
| PURIFICATION | 5.78 | 10.09 |
| ESCHERICHIA-COLI | 5.66 | 10.25 |
| GLUTATHIONE-REDUCTASE | 5.31 | 26.72 |
| CRUZI | 5.19 | 1.05 |
| HYDROGEN-PEROXIDE | 4.48 | 20.25 |
| TROPICAL DISEASES | 4.42 | 19.59 |
| ENZYME | 4.25 | 13.61 |
| BRUCEI | 4.19 | 0.73 |

| Title Words | f(%) | σ |
|---|---|---|
| CRUZI | 22.65 | -3.02 |
| TRYPANOSOMA | 21.30 | -5.84 |
| ACTIVITY | 17.64 | 22.53 |
| SYNTHESIS | 12.68 | 24.92 |
| TRYPANOTHIONE | 10.91 | 44.95 |
| REDUCTASE | 10.50 | 40.72 |
| TRYPANOSOMA-CRUZI | 10.15 | -1.82 |
| AGAINST | 9.73 | 10.24 |
| DERIVATIVES | 8.85 | 24.18 |
| NEW | 7.96 | 11.83 |

| Journal | f(%) | σ |
|---|---|---|
| BIOORGAN MED CHEM | 4.07 | 17.46 |
| EUR J MED CHEM | 4.07 | 16.52 |
| MOL BIOCHEM PARASIT | 3.54 | 2.43 |
| J MED CHEM | 2.65 | 10.61 |
| BIOORG MED CHEM LETT | 2.18 | 9.56 |
| J INORG BIOCHEM | 2.12 | 19.28 |
| EXP PARASITOL | 1.89 | -1.86 |
| ANTIMICROB AGENTS CH | 1.77 | 4.50 |
| J BIOL CHEM | 1.65 | 2.58 |
| J BRAZIL CHEM SOC | 1.65 | 13.27 |

| Institution | f(%) | σ |
|---|---|---|
| FAC MED | 11.15 | 2.60 |
| DEPT CHEM | 10.15 | 18.55 |
| DEPT QUIM | 9.09 | 25.67 |
| UNIV SAO PAULO | 9.09 | 1.38 |
| FAC QUIM | 8.55 | 30.39 |
| UNIV REPUBLICA | 8.38 | 28.06 |
| FAC CIENCIAS | 7.96 | 12.44 |
| DEPT QUIM ORGAN | 7.14 | 20.49 |
| INST QUIM | 7.14 | 15.36 |
| UNIV CHILE | 6.61 | 12.72 |
| DEPT BIOCHEM | 6.25 | 10.78 |
| UNIV FED RIO DE JANEIRO | 5.72 | 1.22 |
| UNIV BUENOS AIRES | 5.49 | 2.04 |
| FIOCRUZ MS | 4.66 | 0.76 |
| DEPT BIOQUIM | 4.54 | 7.25 |
| INST OSWALDO CRUZ | 3.89 | -1.74 |
| UNIV FED MINAS GERAIS | 3.83 | -1.70 |
| UNIV LONDON LONDON SCH HYG & TROP MED | 3.72 | 10.13 |
| DEPT PARASITOL | 3.66 | -1.64 |
| FAC FARM | 3.36 | 6.56 |

| Country | f(%) | σ |
|---|---|---|
| Brazil | 29.79 | -5.54 |
| USA | 14.04 | -10.92 |
| UK | 12.04 | 8.34 |
| Argentina | 11.21 | -3.94 |
| Uruguay | 10.32 | 27.71 |
| Spain | 8.97 | 5.28 |
| Chile | 7.91 | 12.98 |
| Germany | 7.61 | 9.80 |
| France | 7.26 | 2.82 |
| India | 3.24 | 7.40 |

| Author | f(%) | σ |
|---|---|---|
| Cerecetto H | 5.96 | 31.09 |
| Gonzalez M | 5.49 | 28.39 |
| Fairlamb AH | 3.83 | 25.12 |
| Stoppani AOM | 3.01 | 18.62 |
| De Castro SL | 2.89 | 17.03 |
| Gambino D | 2.83 | 23.52 |
| Ferreira VF | 2.60 | 22.17 |
| Morello A | 2.60 | 17.99 |
| Krauth-Siegel RL | 2.48 | 21.34 |
| Maya JD | 2.42 | 13.63 |

| Reference | f(%) | σ |
|---|---|---|
| Fairlamb AH, 1992, ANNU REV MICROBIOL, 46, 695 | 12.92 | 44.21 |
| Fairlamb AH, 1985, SCIENCE, 227, 1485 | 10.68 | 40.82 |
| Coura JR, 2002, MEM I OSWALDO CRUZ, 97, 3 | 6.08 | 10.66 |
| Krieger S, 2000, MOL MICROBIOL, 35, 542 | 5.72 | 28.60 |
| Henderson GB, 1988, P NATL ACAD SCI USA, 85, 5374 | 5.49 | 28.31 |
| Shames SL, 1986, BIOCHEMISTRY-US, 25, 3519 | 5.49 | 30.45 |
| Jockersscherubl MC, 1989, EUR J BIOCHEM, 180, 267 | 5.31 | 29.20 |
| Benson TJ, 1992, BIOCHEM J, 286, 9 | 5.25 | 29.55 |
| Bond CS, 1999, STRUCT FOLD DES, 7, 81 | 5.25 | 28.68 |
| Krauthsiegel RL, 1987, EUR J BIOCHEM, 164, 123 | 5.25 | 30.10 |
| Boveris A, 1980, BIOCHEM J, 188, 643 | 4.72 | 25.65 |
| Salmon-Chemin L, 2001, J MED CHEM, 44, 548 | 4.42 | 25.95 |
| Jacoby EM, 1996, PROTEINS, 24, 73 | 4.37 | 27.27 |
| Krauth-Siegel RL, 2008, BBA-GEN SUBJECTS, 1780, 1236 | 4.25 | 23.23 |
| Wilkinson SR, 2000, J BIOL CHEM, 275, 8220 | 4.25 | 25.15 |
| Maya JD, 2003, BIOCHEM PHARMACOL, 65, 999 | 4.19 | 22.04 |
| Nogoceke E, 1997, BIOL CHEM, 378, 827 | 4.19 | 26.87 |
| Bradford MM, 1976, ANAL BIOCHEM, 72, 248 | 4.01 | 4.67 |
| Chan C, 1998, J MED CHEM, 41, 148 | 4.01 | 25.63 |
| Otwinowski Z, 1997, METHOD ENZYMOL, 276, 307 | 4.01 | 19.78 |

| RefJournal | f(%) | σ |
|---|---|---|
| J BIOL CHEM | 50.15 | 15.05 |
| J MED CHEM | 46.02 | 47.90 |
| MOL BIOCHEM PARASIT | 43.24 | 8.79 |
| P NATL ACAD SCI USA | 39.82 | 5.23 |
| BIOCHEM J | 36.22 | 23.19 |
| SCIENCE | 33.81 | 6.91 |
| BIOORGAN MED CHEM | 32.45 | 38.95 |
| BIOCHEM PHARMACOL | 32.33 | 45.27 |
| ANTIMICROB AGENTS CH | 31.80 | 21.28 |
| EUR J BIOCHEM | 28.14 | 23.92 |

| Subject | f(%) | σ |
|---|---|---|
| Biochemistry & Molecular Biology | 35.63 | 23.52 |
| Chemistry, Medicinal | 24.01 | 32.61 |
| Pharmacology & Pharmacy | 15.04 | 17.69 |
| Parasitology | 12.45 | -10.55 |
| Chemistry, Organic | 10.56 | 22.66 |
| Chemistry, Multidisciplinary | 8.32 | 20.26 |
| Biophysics | 6.43 | 11.92 |
| Chemistry, Inorganic & Nuclear | 6.14 | 30.95 |
| Microbiology | 4.90 | -2.92 |
| Tropical Medicine | 4.54 | -13.60 |

Cluster 6 (“GenBMOL”). This cluster contains N= 1658 publications.

| Keywords | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 22.01 | -2.89 |
| BRUCEI | 19.60 | 33.36 |
| EXPRESSION | 12.30 | 11.45 |
| CRUZI | 10.98 | 12.23 |
| CHAGAS-DISEASE | 10.80 | -10.28 |
| SEQUENCE | 9.71 | 21.64 |
| IDENTIFICATION | 9.05 | 5.64 |
| PROTEIN | 8.99 | 15.06 |
| GENE-EXPRESSION | 8.32 | 20.31 |
| DIFFERENTIATION | 7.24 | 15.15 |
| GENE | 6.27 | 12.86 |
| PROTEINS | 6.03 | 10.23 |
| PLASMODIUM-FALCIPARUM | 5.31 | 6.38 |
| SACCHAROMYCES-CEREVISIAE | 5.31 | 12.39 |
| FAMILY | 5.07 | 15.05 |
| LEISHMANIA | 4.95 | 10.33 |
| DNA | 4.89 | 6.24 |
| GENOME | 4.83 | 18.68 |
| LEISHMANIA-MAJOR | 4.83 | 11.76 |
| PURIFICATION | 4.76 | 7.16 |
| **Title Words** | **f(%)** | **σ** |
| TRYPANOSOMA | 43.31 | 14.26 |
| CRUZI | 37.94 | 11.22 |
| LEISHMANIA | 16.28 | 26.05 |
| PROTEIN | 12.42 | 24.23 |
| CHARACTERIZATION | 10.07 | 13.39 |
| GENE | 9.35 | 20.51 |
| ANALYSIS | 7.12 | 10.74 |
| EXPRESSION | 6.88 | 11.40 |
| PROTEINS | 5.61 | 15.27 |
| LEISHMANIASIS | 5.55 | 16.10 |
| **Journal** | **f(%)** | **σ** |
| MOL BIOCHEM PARASIT | 11.34 | 22.35 |
| PLOS ONE | 4.58 | 10.75 |
| EXP PARASITOL | 3.92 | 3.35 |
| PARASITOL RES | 2.90 | 3.92 |
| J BIOL CHEM | 2.59 | 6.37 |
| INT J PARASITOL | 2.41 | 6.07 |
| MEM I OSWALDO CRUZ | 2.41 | -2.44 |
| PLOS NEGLECT TROP D | 2.29 | 0.41 |
| BIOCHEM BIOPH RES CO | 2.11 | 9.74 |
| FEMS MICROBIOL LETT | 1.87 | 11.21 |

| Institution | f(%) | σ |
|---|---|---|
| UNIV BUENOS AIRES | 7.06 | 5.11 |
| UNIV FED RIO DE JANEIRO | 6.94 | 3.45 |
| SCH MED | 6.76 | -0.38 |
| DEPT PARASITOL | 6.09 | 3.17 |
| INST BIOFIS CARLOS CHAGAS FILHO | 6.09 | 8.83 |
| UNIV SAO PAULO | 6.09 | -3.09 |
| FAC MED | 5.97 | -4.68 |
| BUENOS AIRES | 5.73 | 3.08 |
| DEPT BIOCHEM | 5.37 | 8.26 |
| UNIV FED MINAS GERAIS | 5.25 | 1.04 |
| FIOCRUZ MS | 4.76 | 0.96 |
| CONICET | 4.70 | 7.76 |
| CONSEJO NACL INVEST CIENT & TECN | 4.58 | 7.72 |
| FAC CIENCIAS | 4.22 | 3.22 |
| CSIC | 4.10 | 8.60 |
| UNIV FED SAO PAULO | 3.92 | 4.39 |
| DEPT BIOL | 3.32 | 0.88 |
| INST OSWALDO CRUZ | 3.32 | -2.82 |
| DEPT BIOQUIM & IMUNOL | 3.26 | 7.81 |
| BELO HORIZONTE | 3.20 | -1.03 |
| **Country** | **f(%)** | **σ** |
| Brazil | 32.93 | -2.82 |
| USA | 26.84 | 1.13 |
| Argentina | 14.90 | 0.36 |
| UK | 9.53 | 4.22 |
| Spain | 8.14 | 3.80 |
| France | 5.61 | -0.11 |
| Venezuela | 3.56 | 0.04 |
| Japan | 3.32 | 5.09 |
| Germany | 3.20 | -0.31 |
| Switzerland | 3.14 | 2.07 |
| **Author** | **f(%)** | **σ** |
| De Souza W | 3.68 | 12.38 |
| Goldenberg S | 2.96 | 15.13 |
| Pereira CA | 2.90 | 22.33 |
| Schenkman S | 2.47 | 11.24 |
| Alonso C | 2.41 | 16.70 |
| Krieger MA | 2.35 | 14.82 |
| Requena JM | 2.23 | 18.60 |
| Lopez MC | 2.11 | 11.18 |
| Silber AM | 2.05 | 15.24 |
| Soto M | 1.99 | 17.28 |

| Reference | f(%) | σ |
|---|---|---|
| El-Sayed NM, 2005, SCIENCE, 309, 409 | 17.43 | 36.57 |
| Berriman M, 2005, SCIENCE, 309, 416 | 12.00 | 41.36 |
| Ivens AC, 2005, SCIENCE, 309, 436 | 11.94 | 40.45 |
| Camargo EP, 1964, Revista do Instituto de Medicina Tropical de Sao Paulo, 6, 93 | 10.13 | 17.35 |
| El-Sayed NM, 2005, SCIENCE, 309, 404 | 7.66 | 27.57 |
| Contreras VT, 1985, MOL BIOCHEM PARASIT, 16, 315 | 7.06 | 20.77 |
| Sambrook J, 1989, MOL CLONING LAB MANU | 6.39 | 16.26 |
| Laemmli UK, 1970, NATURE, 227, 680 | 6.21 | 5.98 |
| Atwood JA, 2005, SCIENCE, 309, 473 | 5.67 | 18.97 |
| Clayton CE, 2002, EMBO J, 21, 1881 | 5.43 | 29.25 |
| Bradford MM, 1976, ANAL BIOCHEM, 72, 248 | 5.37 | 8.30 |
| Vanhamme L, 1995, MICROBIOL REV, 59, 223 | 4.22 | 23.56 |
| Altschul SF, 1990, J MOL BIOL, 215, 403 | 3.92 | 15.30 |
| Contreras V T, 1988, Memorias do Instituto Oswaldo Cruz, 83, 123 | 3.92 | 17.19 |
| Kelly JM, 1992, NUCLEIC ACIDS RES, 20, 3963 | 3.92 | 16.27 |
| Peacock CS, 2007, NAT GENET, 39, 839 | 3.80 | 22.47 |
| Clayton C, 2007, MOL BIOCHEM PARASIT, 156, 93 | 3.68 | 24.02 |
| Barrett MP, 2003, LANCET, 362, 1469 | 3.44 | 9.84 |
| Vazquez MP, 1999, GENE, 239, 217 | 3.38 | 18.57 |
| Aslett M, 2010, NUCLEIC ACIDS RES, 38, D457 | 3.32 | 18.46 |
| **RefJournal** | **f(%)** | **σ** |
| MOL BIOCHEM PARASIT | 78.65 | 39.31 |
| J BIOL CHEM | 70.63 | 32.62 |
| P NATL ACAD SCI USA | 62.42 | 24.62 |
| SCIENCE | 54.83 | 26.25 |
| NUCLEIC ACIDS RES | 53.20 | 51.20 |
| NATURE | 47.89 | 16.91 |
| EXP PARASITOL | 42.82 | 11.29 |
| EMBO J | 38.90 | 37.20 |
| CELL | 37.39 | 28.99 |
| MOL CELL BIOL | 35.04 | 49.76 |
| **Subject** | **f(%)** | **σ** |
| Parasitology | 36.01 | 12.26 |
| Biochemistry & Molecular Biology | 34.86 | 22.38 |
| Microbiology | 12.24 | 9.11 |
| Tropical Medicine | 8.56 | -9.09 |
| Multidisciplinary Sciences | 7.48 | 9.46 |
| Cell Biology | 6.76 | 4.36 |
| Genetics & Heredity | 6.45 | 19.41 |
| Biophysics | 6.03 | 10.68 |
| Infectious Diseases | 5.49 | -4.62 |
| Immunology | 3.98 | -8.76 |

Cluster 7 (“TryStrainPAR”). This cluster contains N= 1299 publications.

| Keywords | f(%) | σ |
|---|---|---|
| CHAGAS-DISEASE | 33.33 | 10.82 |
| IDENTIFICATION | 14.63 | 13.58 |
| STRAINS | 12.78 | 28.88 |
| TRYPANOSOMA-CRUZI | 11.24 | -11.52 |
| DNA | 10.08 | 17.54 |
| INFECTION | 10.01 | 4.05 |
| POLYMERASE-CHAIN-REACTION | 9.16 | 14.64 |
| RIBOSOMAL-RNA | 9.01 | 30.70 |
| CRUZI | 8.85 | 7.19 |
| BRAZIL | 8.62 | 17.19 |
| TRANSMISSION | 8.47 | 7.66 |
| MULTILOCUS ENZYME ELEC-TROPHORESIS | 8.08 | 34.25 |
| LINEAGES | 7.24 | 29.88 |
| PHYLOGENETIC LINEAGES | 7.16 | 31.54 |
| EVOLUTION | 7.08 | 14.10 |
| VARIABILITY | 6.93 | 25.13 |
| POPULATIONS | 6.70 | 13.93 |
| MICE | 5.77 | 0.10 |
| AGENT | 5.70 | 26.63 |
| PARASITIC PROTOZOA | 5.62 | 17.71 |

| Title Words | f(%) | σ |
|---|---|---|
| TRYPANOSOMA | 62.12 | 27.79 |
| CRUZI | 54.20 | 23.32 |
| CHAGAS | 14.70 | -4.14 |
| DISEASE | 13.78 | -3.14 |
| TRYPANOSOMA-CRUZI | 10.93 | -0.71 |
| BRAZIL | 8.85 | 16.19 |
| STRAINS | 8.39 | 22.10 |
| GENETIC | 8.24 | 25.66 |
| INFECTION | 8.24 | -0.68 |
| CHARACTERIZATION | 7.08 | 6.21 |

| Journal | f(%) | σ |
|---|---|---|
| MEM I OSWALDO CRUZ | 9.08 | 10.90 |
| ACTA TROP | 6.39 | 12.15 |
| EXP PARASITOL | 5.70 | 6.98 |
| INFECT GENET EVOL | 4.93 | 19.35 |
| PARASITOLOGY | 4.46 | 10.17 |
| PARASITOL RES | 4.31 | 7.46 |
| MOL BIOCHEM PARASIT | 4.23 | 3.70 |
| AM J TROP MED HYG | 4.00 | 1.88 |
| PLOS NEGLECT TROP D | 3.77 | 4.04 |
| INT J PARASITOL | 3.62 | 9.83 |

| Institution | f(%) | σ |
|---|---|---|
| FAC MED | 12.39 | 3.82 |
| INST OSWALDO CRUZ | 12.24 | 12.55 |
| DEPT PARASITOL | 11.24 | 11.78 |
| FIOCRUZ MS | 9.01 | 8.40 |
| UNIV SAO PAULO | 8.62 | 0.60 |
| UNIV FED MINAS GERAIS | 7.78 | 5.22 |
| BELO HORIZONTE | 5.39 | 3.29 |
| CNRS | 5.39 | 9.07 |
| FAC CIENCIAS | 5.16 | 4.86 |
| INST CIENCIAS BIOL | 5.16 | 9.11 |
| UNIV CHILE | 4.77 | 6.56 |
| DEPT BIOL | 4.46 | 3.22 |
| UNIV LOS ANDES | 4.39 | 9.23 |
| DEPT BIOQUIM & IMUNOL | 4.31 | 10.42 |
| FUNDACAO OSWALDO CRUZ | 4.23 | 2.64 |
| DEPT TROP MED | 4.00 | 12.65 |
| DEPT BIOQUIM | 3.93 | 4.78 |
| BUENOS AIRES | 3.77 | -0.78 |
| UNIV LONDON LONDON SCH HYG & TROP MED | 3.62 | 8.53 |
| INST CIENCIAS BIOMED | 3.46 | 5.14 |

| Country | f(%) | σ |
|---|---|---|
| Brazil | 44.96 | 6.52 |
| USA | 16.86 | -7.24 |
| France | 11.47 | 9.03 |
| UK | 11.16 | 6.06 |
| Argentina | 10.01 | -4.68 |
| Colombia | 9.55 | 15.89 |
| Venezuela | 5.47 | 3.75 |
| Chile | 5.31 | 5.65 |
| Bolivia | 4.54 | 9.19 |
| Spain | 4.23 | -2.60 |

| Author | f(%) | σ |
|---|---|---|
| Tibayrenc M | 8.01 | 39.07 |
| Miles MA | 5.93 | 26.09 |
| Jansen AM | 5.54 | 28.47 |
| Barnabe C | 5.00 | 29.75 |
| Macedo AM | 4.16 | 23.50 |
| Solari A | 3.85 | 18.72 |
| Chiari E | 3.39 | 13.61 |
| Breniere SF | 3.23 | 16.93 |
| Zingales B | 3.23 | 17.17 |
| Guhl F | 3.00 | 15.24 |

| Reference | f(%) | σ |
|---|---|---|
| Souto RP, 1996, MOL BIOCHEM PARASIT, 83, 141 | 24.40 | 60.52 |
| Tibayrenc M, 1986, P NATL ACAD SCI USA, 83, 115 | 19.17 | 55.68 |
| Zingales B, 2009, MEM I OSWALDO CRUZ, 104, 1051 | 18.71 | 40.97 |
| Tibayrenc M, 1988, EVOLUTION, 42, 277 | 15.70 | 52.02 |
| Zingales B, 2012, INFECT GENET EVOL, 12, 240 | 14.70 | 39.20 |
| Brisse S, 2000, INT J PARASITOL, 30, 35 | 13.93 | 49.48 |
| Miles MA, 1978, NATURE, 272, 819 | 13.86 | 46.55 |
| Machado CA, 2001, P NATL ACAD SCI USA, 98, 7396 | 13.70 | 46.61 |
| Miles MA, 1977, T ROY SOC TROP MED H, 71, 217 | 12.39 | 42.76 |
| Morel C, 1980, P NATL ACAD SCI-BIOL, 77, 6810 | 12.16 | 39.56 |
| Gaunt MW, 2003, NATURE, 421, 936 | 10.78 | 41.57 |
| Brisse S, 2001, INT J PARASITOL, 31, 1218 | 10.39 | 41.91 |
| Westenberger SJ, 2005, GENETICS, 171, 527 | 10.32 | 41.73 |
| Yeo M, 2005, INT J PARASITOL, 35, 225 | 10.01 | 38.38 |
| Tibayrenc M, 1993, P NATL ACAD SCI USA, 90, 1335 | 9.78 | 41.48 |
| Hoare CA, 1972, TRYPANOSOMES MAMMALS | 9.55 | 29.52 |
| Miles MA, 1980, T ROY SOC TROP MED H, 74, 221 | 9.39 | 36.74 |
| Macedo AM, 1998, PARASITOL TODAY, 14, 119 | 9.01 | 36.20 |
| Barnabe C, 2000, PARASITOLOGY, 120, 513 | 8.62 | 39.47 |
| Tibayrenc M, 1990, P NATL ACAD SCI USA, 87, 2414 | 8.16 | 37.57 |

| RefJournal | f(%) | σ |
|---|---|---|
| MEM I OSWALDO CRUZ | 65.13 | 26.28 |
| MOL BIOCHEM PARASIT | 62.36 | 22.32 |
| AM J TROP MED HYG | 60.43 | 21.95 |
| T ROY SOC TROP MED H | 56.89 | 33.51 |
| EXP PARASITOL | 54.12 | 18.86 |
| INT J PARASITOL | 54.12 | 34.73 |
| PARASITOLOGY | 53.12 | 32.27 |
| ACTA TROP | 52.50 | 23.38 |
| P NATL ACAD SCI USA | 48.58 | 11.25 |
| NATURE | 36.03 | 5.55 |

| Subject | f(%) | σ |
|---|---|---|
| Parasitology | 55.66 | 27.61 |
| Tropical Medicine | 35.64 | 17.98 |
| Infectious Diseases | 13.55 | 6.23 |
| Public, Environmental & Occupational Health | 11.09 | 5.56 |
| Biochemistry & Molecular Biology | 8.08 | -7.11 |
| Microbiology | 5.39 | -1.84 |
| Multidisciplinary Sciences | 4.16 | 1.69 |
| Genetics & Heredity | 3.08 | 6.10 |
| Veterinary Sciences | 2.62 | 0.93 |
| Immunology | 2.31 | -9.71 |

Cluster 8 (“TrypBMOL”). This cluster contains N= 1244 publications.

| Keywords | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 24.84 | -0.21 |
| MAMMALIAN-CELLS | 21.30 | 46.25 |
| TRANS-SIALIDASE | 17.44 | 37.97 |
| CHAGAS-DISEASE | 15.51 | -4.82 |
| INVASION | 14.15 | 37.85 |
| IDENTIFICATION | 9.00 | 4.82 |
| ACID | 8.28 | 24.58 |
| EXPRESSION | 7.96 | 3.34 |
| INFECTION | 7.80 | 0.93 |
| METACYCLIC TRYPOMASTIG-OTES | 7.80 | 27.83 |
| TRYPOMASTIGOTES | 6.67 | 20.48 |
| PROTEIN | 6.11 | 6.94 |
| SURFACE | 5.63 | 16.33 |
| CELLS | 5.47 | 4.76 |
| PROTEINS | 5.23 | 6.95 |
| GLYCOPROTEINS | 4.90 | 25.28 |
| FORMS | 4.74 | 11.87 |
| CRUZI | 4.66 | 0.02 |
| MEMBRANE | 4.66 | 14.38 |
| BIOSYNTHESIS | 4.42 | 12.97 |

| Title Words | f(%) | σ |
|---|---|---|
| TRYPANOSOMA | 49.84 | 17.50 |
| CRUZI | 45.42 | 15.75 |
| TRANS-SIALIDASE | 13.91 | 48.53 |
| CELL | 11.90 | 19.59 |
| TRYPANOSOMA-CRUZI | 11.82 | 0.28 |
| INVASION | 10.69 | 36.63 |
| HOST | 9.32 | 20.70 |
| CELLS | 8.60 | 10.69 |
| INFECTION | 7.07 | -2.12 |
| SYNTHESIS | 6.51 | 8.07 |

| Journal | f(%) | σ |
|---|---|---|
| MOL BIOCHEM PARASIT | 6.19 | 7.95 |
| INFECT IMMUN | 5.55 | 11.49 |
| J BIOL CHEM | 4.02 | 10.51 |
| GLYCOBIOLOGY | 3.70 | 19.26 |
| EXP PARASITOL | 2.57 | -0.08 |
| MEM I OSWALDO CRUZ | 2.25 | -2.42 |
| CARBOHYD RES | 2.09 | 19.70 |
| CELL MICROBIOL | 2.09 | 15.38 |
| MICROBES INFECT | 2.01 | 7.44 |
| PARASITOLOGY | 1.93 | 2.01 |

| Institution | f(%) | σ |
|---|---|---|
| UNIV FED SAO PAULO | 12.54 | 24.08 |
| SCH MED | 10.85 | 5.34 |
| ESCOLA PAULISTA MED | 10.05 | 24.05 |
| UNIV BUENOS AIRES | 8.36 | 6.66 |
| UNIV FED RIO DE JANEIRO | 8.28 | 5.15 |
| DEPT MICROBIOL IMUNOL & PARASITOL | 6.83 | 20.76 |
| UNIV SAO PAULO | 6.83 | -1.72 |
| INST BIOFIS CARLOS CHAGAS FILHO | 6.59 | 8.75 |
| FAC CIENCIAS EXACTAS & NAT | 6.35 | 11.16 |
| DEPT PATHOL | 6.11 | 4.52 |
| DEPT BIOCHEM | 5.87 | 8.33 |
| DEPT QUIM ORGAN | 5.79 | 13.45 |
| DEPT CHEM | 5.71 | 6.34 |
| DEPT MICROBIOL IMMUNOL & PARASITOL | 5.55 | 19.63 |
| FAC MED | 5.55 | -4.57 |
| RA-1428 BUENOS AIRES | 5.39 | 13.48 |
| DEPT BIOQUIM | 4.26 | 5.51 |
| DEPT MICROBIOL | 4.26 | 4.82 |
| INST INVEST BIOTECNOL | 3.54 | 12.15 |
| INST OSWALDO CRUZ | 3.54 | -2.08 |

| Country | f(%) | σ |
|---|---|---|
| Brazil | 37.14 | 0.65 |
| USA | 32.72 | 5.73 |
| Argentina | 16.56 | 1.97 |
| UK | 9.16 | 3.15 |
| France | 5.39 | -0.44 |
| Germany | 4.74 | 2.76 |
| Canada | 2.81 | 1.99 |
| Japan | 2.81 | 3.04 |
| Chile | 2.17 | -1.25 |
| India | 1.93 | 2.16 |

| Author | f(%) | σ |
|---|---|---|
| Yoshida N | 5.47 | 29.32 |
| Schenkman S | 4.42 | 19.40 |
| Frasch ACC | 4.34 | 19.40 |
| Mortara RA | 4.26 | 22.23 |
| Previato JO | 3.94 | 22.66 |
| Andrews NW | 3.62 | 22.81 |
| De Lederkremer RM | 3.30 | 25.45 |
| Colli W Campetella O | 2.97 | 13.37 |
| Mendonca-Previato L | 2.89 | 20.62 |
| | 2.73 | 19.17 |

| Reference | f(%) | σ |
|---|---|---|
| Schenkman S, 1991, CELL, 65, 1117 | 22.35 | 62.55 |
| Schenkman S, 1994, ANNU REV MICROBIOL, 48, 499 | 13.67 | 46.23 |
| Previato JO, 1985, MOL BIOCHEM PARASIT, 16, 85 | 12.14 | 46.37 |
| Tardieux I, 1992, CELL, 71, 1117 | 12.06 | 42.07 |
| Schenkman S, 1993, MOL BIOCHEM PARASIT, 59, 293 | 11.41 | 44.04 |
| Andrews NW, 1987, EXP PARASITOL, 64, 474 | 10.37 | 34.25 |
| Frasch ACC, 2000, PARASITOL TODAY, 16, 282 | 10.37 | 34.65 |
| Tardieux I, 1994, J EXP MED, 179, 1017 | 9.08 | 37.83 |
| Pereira MEA, 1983, SCIENCE, 219, 1444 | 9.00 | 34.22 |
| Buschiazzo A, 2002, MOL CELL, 10, 757 | 8.92 | 39.50 |
| Parodi AJ, 1992, EMBO J, 11, 1705 | 8.44 | 38.88 |
| Schenkman S, 1992, J EXP MED, 175, 567 | 8.28 | 39.29 |
| Yoshida N, 1989, INFECT IMMUN, 57, 1663 | 7.96 | 35.28 |
| Brener Z, 1973, ANNU REV MICROBIOL, 27, 347 | 7.88 | 12.94 |
| Laemmli UK, 1970, NATURE, 227, 680 | 7.80 | 8.22 |
| Pereira MEA, 1991, J EXP MED, 174, 179 | 7.64 | 36.84 |
| Previato JO, 1990, J BIOL CHEM, 265, 2518 | 7.64 | 35.30 |
| Previato JO, 1995, J BIOL CHEM, 270, 7241 | 7.15 | 34.55 |
| Almeida IC, 1994, BIOCHEM J, 304, 793 | 7.07 | 29.91 |
| Burleigh BA, 1995, ANNU REV MICROBIOL, 49, 175 | 7.07 | 27.08 |

| RefJournal | f(%) | σ |
|---|---|---|
| J BIOL CHEM | 76.21 | 32.44 |
| MOL BIOCHEM PARASIT | 69.86 | 27.46 |
| INFECT IMMUN | 59.41 | 28.56 |
| J EXP MED | 52.97 | 29.26 |
| CELL | 51.85 | 40.15 |
| P NATL ACAD SCI USA | 49.28 | 11.53 |
| SCIENCE | 43.41 | 13.60 |
| NATURE | 41.08 | 9.35 |
| EXP PARASITOL | 40.68 | 8.12 |
| J IMMUNOL | 39.95 | 15.15 |

| Subject | f(%) | σ |
|---|---|---|
| Biochemistry & Molecular Biology | 32.96 | 17.52 |
| Parasitology | 24.20 | 0.76 |
| Immunology | 15.68 | 5.80 |
| Microbiology | 11.98 | 7.52 |
| Infectious Diseases | 11.01 | 2.92 |
| Cell Biology | 10.21 | 9.63 |
| Tropical Medicine | 6.99 | -9.35 |
| Chemistry, Organic | 6.35 | 9.51 |
| Medicine, Research & Experimental | 3.86 | 1.75 |
| Multidisciplinary Sciences | 3.38 | 0.12 |

Cluster 9 (“KetoBIOCHEM”). This cluster contains N= 1004 publications.

| Keywords | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 41.93 | 12.31 |
| IN-VITRO | 18.23 | 15.91 |
| CHAGAS-DISEASE | 12.35 | -6.79 |
| SACCHAROMYCES-CEREVISIAE | 8.76 | 18.52 |
| CRUZI | 7.47 | 4.24 |
| BRUCEI | 6.97 | 5.15 |
| GROWTH | 6.57 | 14.18 |
| KETOCONAZOLE | 6.47 | 27.09 |
| LEISHMANIA-DONOVANI | 6.37 | 11.96 |
| PLASMODIUM-FALCIPARUM | 6.18 | 6.65 |
| ACIDOCALCISOMES | 5.18 | 27.06 |
| TOXOPLASMA-GONDII | 5.18 | 7.21 |
| EPIMASTIGOTES | 5.08 | 10.86 |
| EXPRESSION | 4.78 | -1.32 |
| PROGRAMMED CELL-DEATH | 4.78 | 16.31 |
| TRYPANOSOMA SCHIZOTRY-PANUM CRUZI | 4.68 | 20.10 |
| CHEMOTHERAPY | 4.58 | 3.74 |
| INHIBITORS | 4.48 | 4.72 |
| PLASMA-MEMBRANE | 4.28 | 16.35 |
| CELLS | 3.98 | 1.57 |

| Title Words | f(%) | σ |
|---|---|---|
| TRYPANOSOMA | 29.08 | 1.02 |
| CRUZI | 26.49 | 0.45 |
| LEISHMANIA | 12.85 | 14.65 |
| ACTIVITY | 12.35 | 9.88 |
| AGAINST | 7.77 | 4.90 |
| INHIBITORS | 6.27 | 9.76 |
| VITRO | 6.08 | 8.11 |
| EFFECTS | 5.68 | 7.95 |
| SYNTHESIS | 5.48 | 5.25 |
| CELL | 5.18 | 4.64 |

| Journal | f(%) | σ |
|---|---|---|
| MOL BIOCHEM PARASIT | 5.78 | 6.32 |
| J BIOL CHEM | 4.88 | 12.16 |
| ANTIMICROB AGENTS CH | 4.48 | 13.12 |
| EXP PARASITOL | 4.18 | 3.13 |
| PARASITOL RES | 3.59 | 4.77 |
| BIOCHEM J | 2.79 | 10.72 |
| J MED CHEM | 2.29 | 6.70 |
| J EUKARYOT MICROBIOL | 1.79 | 6.92 |
| PARASITOLOGY | 1.69 | 1.14 |
| BIOORG MED CHEM LETT | 1.49 | 4.32 |

| Institution | f(%) | σ |
|---|---|---|
| UNIV ILLINOIS | 11.75 | 38.94 |
| UNIV FED RIO DE JANEIRO | 10.56 | 7.92 |
| INST BIOFIS CARLOS CHAGAS FILHO | 9.86 | 14.34 |
| DEPT PATHOBIOL | 8.86 | 31.67 |
| DEPT CHEM | 8.67 | 11.41 |
| UNIV GEORGIA | 7.77 | 16.02 |
| INST VENEZOLANO INVEST CIENT | 7.47 | 24.12 |
| DEPT CELLULAR BIOL | 7.07 | 23.16 |
| MOL PARASITOL LAB | 7.07 | 24.55 |
| UNIV SAO PAULO | 6.37 | -2.08 |
| CTR TROP & EMERGING GLOBAL DIS | 6.27 | 20.61 |
| FAC CIENCIAS | 5.78 | 5.44 |
| DEPT PARASITOL | 5.48 | 1.53 |
| LAB QUIM BIOL | 5.38 | 28.90 |
| UNIV BUENOS AIRES | 4.98 | 0.79 |
| UNIV ESTADUAL CAMPINAS | 4.78 | 11.60 |
| SCH MED | 4.68 | -2.87 |
| FAC CIENCIAS EXACTAS & NAT | 4.58 | 5.98 |
| DEPT QUIM | 4.48 | 7.76 |
| LAB ULTRAESTRUTURA CELU-LAR HERTHA MEYER | 4.48 | 15.74 |

| Country | f(%) | σ |
|---|---|---|
| Brazil | 35.26 | -0.66 |
| USA | 32.57 | 5.04 |
| Venezuela | 11.65 | 13.91 |
| Argentina | 9.96 | -4.16 |
| UK | 6.77 | -0.16 |
| Spain | 6.37 | 0.58 |
| Germany | 4.98 | 2.90 |
| France | 3.69 | -2.72 |
| Japan | 2.79 | 2.67 |
| India | 2.49 | 3.54 |

| Author | f(%) | σ |
|---|---|---|
| Docampo R | 15.04 | 45.54 |
| Urbina JA | 7.67 | 31.74 |
| De Souza W | 6.97 | 20.90 |
| Moreno SNJ | 6.37 | 31.83 |
| Tempone AG | 3.78 | 25.24 |
| Oldfield E | 3.59 | 28.24 |
| Rodriguez JB | 3.59 | 25.96 |
| Nakamura CV | 3.29 | 16.56 |
| Vercesi AE | 3.09 | 23.44 |
| Ueda-Nakamura T | 2.99 | 17.98 |

| Reference | f(%) | σ |
|---|---|---|
| Docampo R, 1995, BIOCHEM J, 310, 1005 | 9.76 | 40.55 |
| Martin MB, 2001, J MED CHEM, 44, 909 | 8.86 | 36.80 |
| Urbina JA, 1999, J BIOL CHEM, 274, 33609 | 8.67 | 37.24 |
| Scott DA, 1998, J BIOL CHEM, 273, 22151 | 7.87 | 37.33 |
| Vercesi AE, 1994, BIOCHEM J, 304, 227 | 6.67 | 35.66 |
| Lu HG, 1998, MOL CELL BIOL, 18, 2309 | 5.98 | 32.54 |
| Docampo R, 2005, NAT REV MICROBIOL, 3, 251 | 5.88 | 28.31 |
| Lazardi K, 1990, ANTIMICROB AGENTS CH, 34, 2097 | 5.88 | 25.86 |
| Urbina JA, 1996, SCIENCE, 273, 969 | 5.88 | 20.63 |
| Urbina JA, 1988, ANTIMICROB AGENTS CH, 32, 1237 | 5.68 | 27.67 |
| Ruiz FA, 2001, J BIOL CHEM, 276, 26114 | 5.38 | 30.69 |
| Scott DA, 1997, J BIOL CHEM, 272, 28020 | 5.28 | 29.82 |
| Urbina JA, 1995, MOL BIOCHEM PARASIT, 73, 199 | 5.18 | 28.96 |
| Montalvetti A, 2001, J BIOL CHEM, 276, 33930 | 5.08 | 24.91 |
| Urbina JA, 1993, ANTIMICROB AGENTS CH, 37, 580 | 5.08 | 24.55 |
| Docampo R, 1989, J BIOL CHEM, 264, 108 | 4.98 | 30.31 |
| Rodrigues CO, 1999, MOL CELL BIOL, 19, 7712 | 4.98 | 30.96 |
| Scott DA, 2000, J BIOL CHEM, 275, 24215 | 4.98 | 30.31 |
| Urbina JA, 1996, CHEMOTHERAPY, 42, 294 | 4.98 | 27.05 |
| Urbina JA, 2003, TRENDS PARASITOL, 19, 495 | 4.68 | 7.81 |

| RefJournal | f(%) | σ |
|---|---|---|
| J BIOL CHEM | 65.14 | 21.69 |
| MOL BIOCHEM PARASIT | 59.06 | 17.41 |
| P NATL ACAD SCI USA | 45.32 | 7.70 |
| ANTIMICROB AGENTS CH | 44.52 | 28.03 |
| BIOCHEM J | 44.42 | 24.99 |
| SCIENCE | 37.45 | 7.94 |
| EXP PARASITOL | 36.95 | 4.73 |
| NATURE | 30.08 | 0.72 |
| BIOCHEM BIOPH RES CO | 29.88 | 17.43 |
| FEBS LETT | 27.29 | 15.49 |

| Subject | f(%) | σ |
|---|---|---|
| Biochemistry & Molecular Biology | 31.18 | 14.16 |
| Parasitology | 24.60 | 0.99 |
| Pharmacology & Pharmacy | 17.23 | 16.69 |
| Microbiology | 15.34 | 11.02 |
| Chemistry, Medicinal | 12.95 | 9.95 |
| Cell Biology | 6.47 | 2.96 |
| Chemistry, Organic | 5.78 | 7.33 |
| Tropical Medicine | 5.48 | -9.68 |
| Biophysics | 4.88 | 5.82 |
| Infectious Diseases | 4.28 | -4.95 |

Cluster 10 (“ProtBMOL”). This cluster contains N= 835 publications.

| Keywords | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 44.43 | 12.89 |
| CHAGAS-DISEASE | 19.40 | -1.20 |
| IDENTIFICATION | 16.17 | 12.80 |
| EXPRESSION | 11.62 | 7.28 |
| INHIBITORS | 10.90 | 16.77 |
| IN-VITRO | 10.18 | 4.84 |
| PLASMODIUM-FALCIPARUM | 8.50 | 10.18 |
| CRUZI | 7.90 | 4.46 |
| PURIFICATION | 7.90 | 11.27 |
| PROTEINASE | 7.78 | 32.46 |
| CRYSTAL-STRUCTURE | 6.95 | 9.47 |
| INFECTION | 6.47 | -0.73 |
| PROTEASE | 5.99 | 27.99 |
| CATHEPSIN-B | 5.51 | 28.31 |
| MAJOR CYSTEINE PROTEINASE | 5.51 | 25.15 |
| SPECIFICITY | 5.27 | 16.19 |
| SEQUENCE | 5.15 | 6.16 |
| CYSTEINE PROTEINASE | 4.79 | 18.95 |
| CHEMOTHERAPY | 4.67 | 3.57 |
| CYSTEINE PROTEASE INHIBITORS | 4.67 | 21.26 |

| Title Words | f(%) | σ |
|---|---|---|
| CYSTEINE | 31.26 | 77.80 |
| TRYPANOSOMA | 24.67 | -1.92 |
| CRUZI | 20.84 | -3.32 |
| PROTEASE | 16.17 | 53.31 |
| INHIBITORS | 13.89 | 24.70 |
| PROTEINASE | 10.90 | 46.22 |
| TRYPANOSOMA-CRUZI | 10.54 | -0.93 |
| CRUZIPAIN | 9.22 | 39.02 |
| CRUZAIN | 8.98 | 42.40 |
| ACTIVITY | 8.38 | 3.91 |

| Journal | f(%) | σ |
|---|---|---|
| MOL BIOCHEM PARASIT | 7.66 | 9.19 |
| EXP PARASITOL | 4.31 | 3.08 |
| EUR J MED CHEM | 3.11 | 8.30 |
| J BIOL CHEM | 3.11 | 6.01 |
| PARASITOL RES | 3.11 | 3.28 |
| PARASITOLOGY | 2.04 | 1.92 |
| FEMS MICROBIOL LETT | 1.92 | 8.19 |
| BIOORGAN MED CHEM | 1.80 | 4.10 |
| COMP BIOCHEM PHYS B | 1.80 | 9.19 |
| EUR J BIOCHEM | 1.80 | 9.30 |

| Institution | f(%) | σ |
|---|---|---|
| UNIV FED RIO DE JANEIRO | 11.86 | 8.93 |
| UNIV CALIF SAN FRANCISCO | 11.38 | 28.78 |
| DEPT PATHOL | 8.98 | 8.11 |
| INST BIOFIS CARLOS CHAGAS FILHO | 7.19 | 8.24 |
| UNIV SAO PAULO | 6.83 | -1.42 |
| INST OSWALDO CRUZ | 6.59 | 2.42 |
| DEPT CHEM | 5.63 | 5.05 |
| SCH MED | 5.51 | -1.68 |
| UNIV BUENOS AIRES | 5.51 | 1.46 |
| UNIV FED SAO PAULO | 5.51 | 6.18 |
| UNIV GLASGOW | 5.39 | 17.95 |
| FAC MED | 5.03 | -4.26 |
| ESCOLA PAULISTA MED | 4.91 | 7.76 |
| FIOCRUZ MS | 4.91 | 0.89 |
| DEPT MICROBIOL GERAL | 4.55 | 21.38 |
| CONICET | 4.19 | 4.45 |
| FUNDACAO OSWALDO CRUZ | 4.07 | 1.84 |
| FAC CIENCIAS EXACTAS & NAT | 3.95 | 4.14 |
| DEPT PHARMACEUT CHEM | 3.83 | 16.59 |
| INST QUIM | 3.83 | 3.90 |

| Country | f(%) | σ |
|---|---|---|
| Brazil | 34.49 | -1.06 |
| USA | 23.23 | -1.58 |
| Argentina | 15.69 | 0.90 |
| UK | 9.22 | 2.64 |
| France | 6.59 | 1.14 |
| Germany | 4.67 | 2.15 |
| Sweden | 4.31 | 9.09 |
| Canada | 4.19 | 4.47 |
| Belgium | 3.35 | 3.90 |
| Spain | 3.35 | -3.16 |

| Author | f(%) | σ |
|---|---|---|
| Cazzulo JJ | 11.02 | 35.55 |
| Mckerrow JH | 8.50 | 36.83 |
| Juliano L | 5.15 | 30.15 |
| Coombs GH | 4.91 | 29.92 |
| Scharfstein J | 4.91 | 23.21 |
| Mottram JC | 4.67 | 26.95 |
| Branquinha MH | 4.43 | 28.12 |
| Juliano MA | 3.95 | 24.37 |
| D’avila-Levy CM | 3.71 | 26.31 |
| Santos ALS | 3.23 | 23.85 |

| Reference | f(%) | σ |
|---|---|---|
| Eakin AE, 1992, J BIOL CHEM, 267, 7411 | 19.16 | 57.20 |
| Engel JC, 1998, J EXP MED, 188, 725 | 17.37 | 48.64 |
| Mcgrath ME, 1995, J MOL BIOL, 247, 251 | 15.69 | 52.53 |
| Meirelles MNL, 1992, MOL BIOCHEM PARASIT, 52, 175 | 13.89 | 43.69 |
| Harth G, 1993, MOL BIOCHEM PARASIT, 58, 17 | 12.69 | 45.73 |
| Campetella O, 1992, MOL BIOCHEM PARASIT, 50, 225 | 11.98 | 40.93 |
| Sajid M, 2002, MOL BIOCHEM PARASIT, 120, 1 | 11.74 | 43.25 |
| Murta ACM, 1990, MOL BIOCHEM PARASIT, 43, 27 | 11.38 | 38.61 |
| Laemmli UK, 1970, NATURE, 227, 680 | 11.02 | 11.80 |
| Cazzulo JJ, 1989, MOL BIOCHEM PARASIT, 33, 33 | 10.78 | 41.88 |
| Cazzulo JJ, 1990, BIOCHIM BIOPHYS ACTA, 1037, 186 | 10.18 | 39.24 |
| Gillmor SA, 1997, PROTEIN SCI, 6, 1603 | 9.46 | 40.80 |
| Soutopadron T, 1990, J CELL SCI, 96, 485 | 9.10 | 32.31 |
| Engel JC, 1998, J CELL SCI, 111, 597 | 8.74 | 35.62 |
| Mckerrow JH, 1993, ANNU REV MICROBIOL, 47, 821 | 8.62 | 38.71 |
| Mottram JC, 1989, FEBS LETT, 258, 211 | 8.38 | 40.64 |
| Cazzulo JJ, 2001, CURR PHARM DESIGN, 7, 1143 | 8.02 | 33.49 |
| Scharfstein J, 1986, J IMMUNOL, 137, 1336 | 7.78 | 30.98 |
| Cazzulo JJ, 1997, BIOL CHEM, 378, 1 | 7.66 | 32.50 |
| Eakin AE, 1993, J BIOL CHEM, 268, 6115 | 7.54 | 36.98 |

| RefJournal | f(%) | σ |
|---|---|---|
| J BIOL CHEM | 75.57 | 26.19 |
| MOL BIOCHEM PARASIT | 70.66 | 22.99 |
| BIOCHEM J | 44.55 | 22.89 |
| EXP PARASITOL | 44.31 | 8.95 |
| P NATL ACAD SCI USA | 42.28 | 5.17 |
| FEBS LETT | 38.92 | 24.61 |
| EUR J BIOCHEM | 35.33 | 23.59 |
| INFECT IMMUN | 34.25 | 6.51 |
| NATURE | 33.53 | 2.86 |
| J EXP MED | 31.98 | 8.77 |

| Subject | f(%) | σ |
|---|---|---|
| Biochemistry & Molecular Biology | 38.92 | 19.16 |
| Parasitology | 24.31 | 0.70 |
| Chemistry, Medicinal | 16.41 | 13.39 |
| Microbiology | 8.38 | 1.99 |
| Immunology | 7.54 | -2.88 |
| Cell Biology | 7.31 | 3.86 |
| Biophysics | 6.59 | 8.67 |
| Pharmacology & Pharmacy | 5.51 | 0.18 |
| Tropical Medicine | 4.79 | -9.36 |
| Chemistry, Organic | 4.55 | 4.33 |

Cluster 11 (“BloodHEM”). This cluster contains N= 772 publications.

| Keywords | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 27.07 | 1.27 |
| CHAGAS-DISEASE | 25.00 | 2.66 |
| DIAGNOSIS | 15.67 | 23.20 |
| INFECTION | 13.21 | 6.59 |
| UNITED-STATES | 12.05 | 16.91 |
| POLYMERASE-CHAIN-REACTION | 8.03 | 9.33 |
| ANTIBODIES | 7.90 | 10.08 |
| DISEASE | 7.64 | 5.82 |
| TRANSMISSION | 7.64 | 4.76 |
| SERODIAGNOSIS | 7.51 | 22.40 |
| IDENTIFICATION | 7.38 | 1.87 |
| TRYPANOSOMA-CRUZI INFEC-TION | 6.74 | 0.40 |
| AMPLIFICATION | 6.35 | 15.04 |
| ANTIGENS | 6.09 | 10.28 |
| TRANSFUSION | 5.70 | 25.08 |
| ACQUIRED-IMMUNODEFICIENCY-SYNDROME | 5.44 | 21.59 |
| AIDS | 5.44 | 22.84 |
| BLOOD-DONORS | 5.44 | 18.65 |
| HUMAN-IMMUNODEFICIENCY-VIRUS | 5.44 | 19.13 |
| BLOOD | 5.18 | 11.34 |
| **Title Words** | **f(%)** | **σ** |
| CHAGAS | 27.72 | 5.99 |
| TRYPANOSOMA | 27.20 | -0.28 |
| CRUZI | 26.81 | 0.60 |
| DISEASE | 24.87 | 5.77 |
| BLOOD | 14.77 | 23.68 |
| INFECTION | 10.49 | 1.69 |
| DIAGNOSIS | 9.72 | 18.63 |
| TRYPANOSOMA-CRUZI | 9.33 | -1.94 |
| CHAGAS-DISEASE | 7.51 | 4.98 |
| DETECTION | 7.38 | 13.33 |
| **Journal** | **f(%)** | **σ** |
| TRANSFUSION | 7.51 | 19.60 |
| MEM I OSWALDO CRUZ | 5.96 | 3.69 |
| AM J TROP MED HYG | 5.05 | 3.13 |
| J CLIN MICROBIOL | 4.02 | 17.96 |
| REV SOC BRAS MED TRO | 3.11 | 3.60 |
| VOX SANG | 2.59 | 13.93 |
| EXP PARASITOL | 2.46 | -0.26 |
| PARASITOL RES | 1.94 | 0.61 |
| T ROY SOC TROP MED H | 1.94 | 1.52 |
| MOL BIOCHEM PARASIT | 1.81 | -1.38 |

| Institution | f(%) | σ |
|---|---|---|
| FAC MED | 12.69 | 3.23 |
| UNIV SAO PAULO | 9.97 | 1.83 |
| SCH MED | 8.29 | 1.41 |
| DEPT PATHOL | 5.57 | 2.77 |
| DEPT PARASITOL | 5.31 | 1.12 |
| AMER RED CROSS | 4.92 | 20.29 |
| UNIV FED MINAS GERAIS | 4.53 | -0.23 |
| DEPT MED | 4.02 | 0.97 |
| INST OSWALDO CRUZ | 3.63 | -1.52 |
| ESCOLA PAULISTA MED | 3.50 | 4.30 |
| BUENOS AIRES | 3.37 | -1.16 |
| BELO HORIZONTE | 3.24 | -0.64 |
| FIOCRUZ MS | 3.11 | -1.62 |
| DEPT INTERNAL MED | 2.98 | 4.07 |
| HOSP CLIN | 2.72 | 3.13 |
| DEPT BIOL | 2.59 | -0.59 |
| UNIV CALIF SAN FRANCISCO | 2.46 | 3.71 |
| INST CIENCIAS BIOL | 2.33 | 1.11 |
| UNIV BRASILIA | 2.33 | 3.22 |
| UNIV FED GOIAS | 2.33 | 4.91 |
| **Country** | **f(%)** | **σ** |
| Brazil | 37.69 | 0.83 |
| USA | 31.35 | 3.64 |
| Argentina | 13.47 | -0.88 |
| France | 5.57 | -0.12 |
| Spain | 5.05 | -1.04 |
| Chile | 3.76 | 1.71 |
| Canada | 3.37 | 2.67 |
| Bolivia | 3.24 | 4.08 |
| UK | 3.24 | -4.02 |
| Venezuela | 3.24 | -0.46 |
| **Author** | **f(%)** | **σ** |
| Kirchhoff LV | 2.85 | 12.58 |
| Leiby DA | 2.85 | 16.55 |
| Umezawa ES | 2.20 | 11.52 |
| Luquetti AO | 1.94 | 8.72 |
| Marcipar IS | 1.94 | 16.27 |
| Chiari E | 1.81 | 4.65 |
| Da Silveira JF | 1.81 | 8.37 |
| Levin MJ | 1.81 | 5.78 |
| Dodd RY | 1.68 | 13.66 |
| Reed SG | 1.55 | 7.13 |

| Reference | f(%) | σ |
|---|---|---|
| Schmunis GA, 1991, TRANSFUSION, 31, 547 | 16.71 | 48.06 |
| Grant IH, 1989, ANN INTERN MED, 111, 849 | 15.16 | 48.53 |
| Nickerson P, 1989, ANN INTERN MED, 111, 851 | 11.79 | 41.96 |
| Moser DR, 1989, J CLIN MICROBIOL, 27, 1477 | 10.10 | 26.69 |
| Sturm NR, 1989, MOL BIOCHEM PARASIT, 33, 205 | 9.46 | 25.67 |
| Avila HA, 1991, MOL BIOCHEM PARASIT, 48, 211 | 8.94 | 29.42 |
| Kirchhoff LV, 1987, AM J MED, 82, 915 | 8.55 | 34.23 |
| Wincker P, 1994, AM J TROP MED HYG, 51, 771 | 8.29 | 23.75 |
| Kirchhoff LV, 1993, NEW ENGL J MED, 329, 639 | 7.77 | 17.60 |
| Avila HA, 1993, J CLIN MICROBIOL, 31, 2421 | 7.38 | 26.96 |
| Britto C, 1995, PARASITOLOGY, 110, 241 | 6.87 | 25.06 |
| Kerndt PR, 1991, TRANSFUSION, 31, 814 | 6.74 | 30.38 |
| Ibanez CF, 1988, MOL BIOCHEM PARASIT, 30, 27 | 6.35 | 20.92 |
| Delcastillo M, 1990, AM J MED, 88, 693 | 6.22 | 29.26 |
| Carvalho MR, 1993, TRANSFUSION, 33, 830 | 6.09 | 30.94 |
| Krieger MA, 1992, AM J TROP MED HYG, 46, 427 | 6.09 | 27.51 |
| Leiby DA, 2002, TRANSFUSION, 42, 549 | 6.09 | 20.57 |
| Da Silveira JF, 2001, TRENDS PARASITOL, 17, 286 | 5.83 | 23.79 |
| Leiby DA, 1997, J INFECT DIS, 176, 1047 | 5.83 | 26.90 |
| Britto C, 1993, MEM I OSWALDO CRUZ, 88, 171 | 5.70 | 22.49 |
| **RefJournal** | **f(%)** | **σ** |
| AM J TROP MED HYG | 57.90 | 15.42 |
| TRANSFUSION | 41.58 | 51.39 |
| J CLIN MICROBIOL | 41.06 | 33.14 |
| MEM I OSWALDO CRUZ | 37.82 | 3.90 |
| MOL BIOCHEM PARASIT | 35.10 | 1.13 |
| J INFECT DIS | 30.83 | 12.06 |
| T ROY SOC TROP MED H | 30.05 | 7.13 |
| NEW ENGL J MED | 29.66 | 15.61 |
| LANCET | 25.13 | 6.32 |
| EXP PARASITOL | 24.35 | -3.49 |
| **Subject** | **f(%)** | **σ** |
| Tropical Medicine | 21.50 | 3.38 |
| Parasitology | 20.08 | -2.11 |
| Hematology | 15.80 | 29.87 |
| Microbiology | 13.47 | 7.58 |
| Infectious Diseases | 13.21 | 4.47 |
| Immunology | 11.79 | 1.06 |
| Public, Environmental & Occupational Health | 10.88 | 4.07 |
| Medicine, General & Internal | 6.99 | 4.42 |
| Biochemistry & Molecular Biology | 4.66 | -8.13 |
| Surgery | 3.37 | 7.64 |

Cluster 12 ("VecPAR"). This cluster contains N= 500 publications.

| Keywords | f(%) | σ |
|---|---|---|
| TRYPANOSOMA-CRUZI | 28.80 | 1.91 |
| RHODNIUS-PROLIXUS | 20.00 | 29.58 |
| CHAGAS-DISEASE | 14.60 | -3.56 |
| REDUVIIDAE | 9.40 | 8.99 |
| CRUZI | 9.20 | 4.83 |
| DROSOPHILA-MELANOGASTER | 7.20 | 22.95 |
| VECTOR | 6.80 | 12.70 |
| MIDGUT | 6.20 | 29.08 |
| INFECTION | 6.00 | -0.97 |
| TRIATOMA-INFESTANS | 6.00 | 8.39 |
| AEDES-AEGYPTI | 5.80 | 19.53 |
| IDENTIFICATION | 5.40 | -0.39 |
| HEMIPTERA | 5.20 | 5.49 |
| HEMOLYMPH | 5.00 | 25.95 |
| TRANSMISSION | 5.00 | 0.89 |
| CHAGAS-DISEASE VECTOR | 4.60 | 10.47 |
| DROSOPHILA | 4.20 | 17.85 |
| IN-VITRO | 4.20 | -1.82 |
| EXPRESSION | 4.00 | -1.68 |
| INSECT | 4.00 | 17.63 |
| **Title Words** | **f(%)** | **σ** |
| PROLIXUS | 30.80 | 59.71 |
| RHODNIUS | 30.40 | 50.12 |
| TRYPANOSOMA | 28.80 | 0.58 |
| CRUZI | 21.40 | -2.28 |
| VECTOR | 13.80 | 19.36 |
| TRIATOMA | 13.20 | 12.34 |
| ACTIVITY | 10.60 | 5.23 |
| CHAGAS | 10.20 | -5.12 |
| CHARACTERIZATION | 10.20 | 7.50 |
| DISEASE | 10.20 | -4.08 |
| **Journal** | **f(%)** | **σ** |
| EXP PARASITOL | 8.20 | 7.84 |
| MEM I OSWALDO CRUZ | 4.80 | 1.56 |
| INSECT BIOCHEM MOLEC | 4.60 | 22.90 |
| PARASITOL RES | 4.60 | 5.14 |
| J INSECT PHYSIOL | 4.40 | 19.20 |
| PARASITE VECTOR | 3.80 | 8.47 |
| ACTA TROP | 3.60 | 2.91 |
| PLOS ONE | 3.40 | 3.68 |
| PLOS NEGLECT TROP D | 3.00 | 1.32 |
| PARASITOLOGY | 2.20 | 1.81 |

| Institution | f(%) | σ |
|---|---|---|
| UNIV FED RIO DE JANEIRO | 23.80 | 19.08 |
| INST OSWALDO CRUZ | 17.40 | 13.18 |
| FIOCRUZ MS | 11.80 | 8.29 |
| UNIV FED FLUMINENSE | 9.80 | 20.06 |
| DEPT BIOL | 9.40 | 8.52 |
| INST BIOQUIM MED | 8.60 | 29.75 |
| FUNDACAO OSWALDO CRUZ | 8.00 | 6.59 |
| INST BIOFIS CARLOS CHAGAS FILHO | 7.40 | 6.68 |
| RUHR UNIV BOCHUM | 6.80 | 29.91 |
| DEPT BIOQUIM | 6.60 | 7.18 |
| MISSISSAUGA | 6.20 | 35.97 |
| DEPT BIOQUIM & BIOL MOL | 6.00 | 15.33 |
| INST BIOL | 5.60 | 7.84 |
| CCS | 5.40 | 11.67 |
| RIO DE JANEIRO | 5.40 | 7.56 |
| DEPT SPECIAL ZOOL | 5.00 | 30.88 |
| LAB BIOQUIM & FISIOL INSETOS | 5.00 | 28.85 |
| UNIV TORONTO | 5.00 | 19.33 |
| DEPT BIOL GERAL | 4.80 | 22.12 |
| INST CIENCIAS BIOMED | 4.60 | 5.18 |
| **Country** | **f(%)** | **σ** |
| Brazil | 57.20 | 9.74 |
| USA | 11.60 | -7.18 |
| Argentina | 10.80 | -2.40 |
| Canada | 9.40 | 11.74 |
| Germany | 8.80 | 6.81 |
| UK | 7.40 | 0.44 |
| France | 4.40 | -1.23 |
| Mexico | 3.00 | -0.74 |
| Fed Rep Ger | 2.80 | 9.37 |
| Colombia | 1.80 | -1.09 |
| **Author** | **f(%)** | **σ** |
| Azambuja P | 14.00 | 54.67 |
| Garcia ES | 12.80 | 51.30 |
| Meyer-Fernandes JR | 10.00 | 41.03 |
| Schaub GA | 9.20 | 38.57 |
| Gonzalez MS | 6.80 | 36.50 |
| Orchard I | 4.40 | 30.54 |
| Mello CB | 4.20 | 28.50 |
| Lange AB | 3.60 | 27.36 |
| Ratcliffe NA | 3.60 | 28.10 |
| Castro DP | 3.40 | 28.09 |

| Reference | f(%) | σ |
|---|---|---|
| Garcia ES, 1991, PARASITOL TODAY, 7, 240 | 12.80 | 40.62 |
| Kollien AH, 2000, PARASITOL TODAY, 16, 381 | 11.20 | 27.55 |
| Chagas C, 1909, Memorias do Instituto Oswaldo Cruz, 1, 0 | 10.00 | 10.49 |
| Azambuja P, 2004, EXP PARASITOL, 107, 89 | 9.60 | 39.94 |
| Schaub GA, 1989, EXP PARASITOL, 68, 260 | 8.40 | 33.60 |
| Lowry OH, 1951, J BIOL CHEM, 193, 265 | 8.20 | 8.90 |
| Garcia ES, 2007, J INSECT PHYSIOL, 53, 11 | 7.80 | 31.12 |
| Mello CB, 1996, EXP PARASITOL, 82, 112 | 7.80 | 31.94 |
| Eichler S, 2002, EXP PARASITOL, 100, 17 | 7.60 | 35.02 |
| Mello CB, 1995, J INVERTEBR PATHOL, 65, 261 | 7.60 | 35.81 |
| Brener Z, 1973, ANNU REV MICROBIOL, 27, 347 | 7.40 | 7.50 |
| Pereira MEA, 1981, SCIENCE, 211, 597 | 7.20 | 28.88 |
| Furuya T, 1998, MOL BIOCHEM PARASIT, 92, 339 | 7.00 | 35.90 |
| Berredo-Pinho M, 2001, ARCH BIOCHEM BIOPHYS, 391, 16 | 6.80 | 35.33 |
| Schaub GA, 1988, EXP PARASITOL, 65, 174 | 6.80 | 33.51 |
| Kollien AH, 1998, ACTA TROP, 70, 127 | 6.40 | 27.25 |
| Araujo CAC, 2006, INSECT BIOCHEM MOLEC, 36, 547 | 6.20 | 32.58 |
| Whitten MMA, 2001, EXP PARASITOL, 98, 44 | 6.20 | 31.69 |
| Bradford MM, 1976, ANAL BIOCHEM, 72, 248 | 6.00 | 5.50 |
| Garcia ES, 2010, TRENDS PARASITOL, 26, 499 | 6.00 | 26.26 |
| **RefJournal** | **f(%)** | **σ** |
| EXP PARASITOL | 54.60 | 11.94 |
| J BIOL CHEM | 49.00 | 7.63 |
| J INSECT PHYSIOL | 46.40 | 59.11 |
| P NATL ACAD SCI USA | 45.20 | 5.38 |
| MEM I OSWALDO CRUZ | 38.60 | 3.52 |
| SCIENCE | 38.60 | 6.18 |
| ACTA TROP | 38.40 | 7.18 |
| PARASITOL RES | 36.60 | 12.91 |
| INSECT BIOCHEM MOLEC | 36.00 | 55.41 |
| PARASITOL TODAY | 31.80 | 10.61 |
| **Subject** | **f(%)** | **σ** |
| Parasitology | 37.40 | 7.47 |
| Biochemistry & Molecular Biology | 19.20 | 2.52 |
| Tropical Medicine | 17.00 | 0.04 |
| Entomology | 16.60 | 22.52 |
| Zoology | 7.20 | 7.67 |
| Physiology | 6.40 | 13.05 |
| Microbiology | 5.40 | -1.13 |
| Multidisciplinary Sciences | 5.40 | 2.60 |
| Infectious Diseases | 4.80 | -3.08 |
| Pharmacology & Pharmacy | 4.60 | -0.76 |

Cluster 13 (“DigeGASTRO”). This cluster contains N= 227 publications.

| Keywords | f(%) | σ |
|---|---|---|
| ACHALASIA | 12.33 | 39.14 |
| TRYPANOSOMA-CRUZI INFECTION | 11.89 | 3.40 |
| CHAGAS-DISEASE | 10.57 | -3.88 |
| MOTILITY | 7.93 | 26.37 |
| DENDRITIC CELLS | 6.17 | 7.64 |
| DISEASE | 5.73 | 1.63 |
| IDIOPATHIC ACHALASIA | 4.41 | 27.72 |
| LOWER ESOPHAGEAL SPHINCTER | 3.52 | 22.10 |
| REGULATED EXPRESSION | 3.52 | 19.29 |
| EXPRESSION | 3.08 | -1.73 |
| EXTRACELLULAR-MATRIX | 3.08 | 8.10 |
| GALACTOSIDE-BINDING PROTEIN | 3.08 | 20.38 |
| GENE-EXPRESSION | 3.08 | 1.51 |
| MEGAESOPHAGUS | 3.08 | 13.40 |
| RECOMBINANT GALECTIN-1 | 3.08 | 23.19 |
| ESOPHAGUS | 2.64 | 17.42 |
| MACROPHAGES | 2.64 | 1.02 |
| MEGACOLON | 2.64 | 9.67 |
| PRESSURE | 2.64 | 13.82 |
| T-CELL DEATH | 2.64 | 11.73 |

| Title Words | f(%) | σ |
|---|---|---|
| CHAGAS | 44.93 | 9.83 |
| DISEASE | 39.21 | 8.87 |
| PATIENTS | 22.03 | 12.44 |
| ACHALASIA | 15.86 | 50.38 |
| ESOPHAGEAL | 14.10 | 39.92 |
| MEGAESOPHAGUS | 10.13 | 32.58 |
| CHRONIC | 9.25 | 3.39 |
| CHAGAS-DISEASE | 8.37 | 3.36 |
| CHAGASIC | 7.93 | 6.99 |
| GALECTIN-3 | 6.17 | 25.86 |

| Journal | f(%) | σ |
|---|---|---|
| DIS ESOPHAGUS | 8.81 | 42.59 |
| REV SOC BRAS MED TRO | 7.49 | 7.34 |
| DIGEST DIS SCI | 5.29 | 22.09 |
| BRAZ J MED BIOL RES | 3.96 | 5.58 |
| MEM I OSWALDO CRUZ | 2.64 | -0.71 |
| NEUROGASTROENT MOTIL | 2.64 | 19.28 |
| AM J GASTROENTEROL | 2.20 | 16.91 |
| INT J CARDIOL | 2.20 | 2.64 |
| AM HEART J | 1.76 | 5.29 |
| DIGESTION | 1.76 | 20.45 |

| Institution | f(%) | σ |
|---|---|---|
| UNIV SAO PAULO | 21.15 | 7.14 |
| DEPT CLIN MED | 15.86 | 24.95 |
| SCH MED | 15.42 | 4.98 |
| FAC MED RIBEIRAO PRETO | 12.78 | 17.85 |
| FAC MED | 12.33 | 1.57 |
| DEPT MED | 8.37 | 4.16 |
| UNIV BUENOS AIRES | 8.37 | 2.85 |
| DEPT SURG | 7.93 | 17.55 |
| DEPT GASTROENTEROL | 7.49 | 28.09 |
| BUENOS AIRES | 6.61 | 1.80 |
| UNIV FED SAO PAULO ESCOLA | 6.17 | 3.88 |
| PAULISTA MED CONSEJO NACL | 4.85 | 3.97 |
| INVEST CIENT & TECN | 4.41 | 2.66 |
| UNIV FED MINAS GERAIS FAC CIENCIAS EXACTAS & NAT | 4.41 | -0.22 |
| HOSP CLIN | 3.96 | 2.17 |
| UBERABA | 3.96 | 3.29 |
| UNIV FED TRIANGULO MINEIRO | 3.96 | 6.81 |
| BELO HORIZONTE | 3.96 | 6.51 |
| DEPT QUIM BIOL | 3.52 | -0.12 |
| | 3.52 | 12.02 |

| Country | f(%) | σ |
|---|---|---|
| Brazil | 57.71 | 6.72 |
| USA | 19.38 | -2.15 |
| Argentina | 10.57 | -1.71 |
| UK | 3.96 | -1.75 |
| Italy | 2.64 | 1.07 |
| France | 2.20 | -2.26 |
| Spain | 1.76 | -2.66 |
| Australia | 1.32 | 0.54 |
| Germany | 1.32 | -1.69 |
| Mexico | 1.32 | -1.85 |

| Author | f(%) | σ |
|---|---|---|
| Dantas RO | 12.78 | 45.59 |
| Rabinovich GA | 7.93 | 40.11 |
| Troncon LEA | 6.17 | 32.74 |
| Herbella FAM | 5.29 | 35.42 |
| Meneghelli UG | 5.29 | 31.61 |
| Oliveira RB | 4.41 | 24.64 |
| Cecconello I | 3.52 | 24.58 |
| Patti MG | 3.52 | 27.23 |
| Anselmi A | 3.08 | 21.46 |
| Crema E | 3.08 | 16.62 |

| Reference | f(%) | σ |
|---|---|---|
| Koberle F, 1968, Advances in Parasitology, 6, 63 | 18.50 | 20.37 |
| Chagas C, 1909, Memorias do Instituto Oswaldo Cruz, 1, 0 | 11.89 | 8.87 |
| Acosta-Rodriguez EV, 2004, J IMMUNOL, 172, 493 | 10.13 | 35.30 |
| Oliveira RB, 1998, AM J GASTROENTEROL, 93, 884 | 10.13 | 39.09 |
| Chagas C, 1916, MEM I O CRUZ, 8, 37 | 9.69 | 25.82 |
| Oliveira RB, 1995, AM J GASTROENTEROL, 90, 1119 | 9.69 | 44.26 |
| Chagas C, 1916, Memorias do Instituto Oswaldo Cruz, 8, 5 | 8.81 | 28.09 |
| Chagas Carlos, 1911, Memorias do Instituto Oswaldo Cruz, 3, 0 | 8.81 | 19.62 |
| Dantas RO, 2001, DIGEST DIS SCI, 46, 1200 | 7.93 | 40.95 |
| Chagas C, 1922, MEM I O CRUZ, 14, 5 | 7.05 | 18.40 |
| Dantas RO, 1990, DIGEST DIS SCI, 35, 508 | 7.05 | 37.43 |
| Herbella FAM, 2004, DIGEST DIS SCI, 49, 353 | 6.61 | 34.05 |
| Laranja FS, 1956, CIRCULATION, 14, 1035 | 6.61 | 6.34 |
| Rezende JM, 1960, REV BRAS GASTROENTER, 12, 247 | 6.61 | 21.39 |
| Yang RY, 1996, P NATL ACAD SCI USA, 93, 6737 | 6.61 | 36.17 |
| Dantas RO, 1999, J CLIN GASTROENTEROL, 28, 245 | 6.17 | 30.88 |
| Meneghelli UG, 1985, BRAZ J MED BIOL RES, 18, 255 | 6.17 | 25.75 |
| Oliveira RB, 1983, DIGEST DIS SCI, 28, 294 | 6.17 | 33.73 |
| Silva-Monteiro E, 2007, AM J PATHOL, 170, 546 | 6.17 | 29.33 |
| Vianna Gaspar, 1911, Memorias do Instituto Oswaldo Cruz, 3, 0 | 6.17 | 11.26 |

| RefJournal | f(%) | σ |
|---|---|---|
| GASTROENTEROLOGY | 47.58 | 53.69 |
| DIGEST DIS SCI | 36.56 | 54.49 |
| AM J GASTROENTEROL | 29.07 | 44.03 |
| GUT | 28.63 | 37.72 |
| J CLIN GASTROENTEROL | 23.35 | 54.88 |
| Memorias do Instituto Oswaldo Cruz | 21.59 | 6.84 |
| REV GOIANA MED | 20.26 | 24.76 |
| BRAZ J MED BIOL RES | 19.38 | 8.22 |
| NATURE | 18.94 | -3.35 |
| NEW ENGL J MED | 18.94 | 3.43 |

| Subject | f(%) | σ |
|---|---|---|
| Gastroenterology & Hepatology | 32.60 | 53.84 |
| Tropical Medicine | 15.42 | -0.61 |
| Cardiac & Cardiovascular Systems | 7.49 | 2.00 |
| Immunology | 7.49 | -1.53 |
| Parasitology | 7.05 | -5.79 |
| Medicine, General & Internal | 6.61 | 2.10 |
| Medicine, Research & Experimental | 5.29 | 2.01 |
| Surgery | 5.29 | 7.29 |
| Clinical Neurology | 4.85 | 8.92 |
| Cell Biology | 4.41 | -0.09 |

Cluster 14 (“PlantPHA”). This cluster contains N= 184 publications.

| Keywords | f(%) | σ |
|---|---|---|
| IN-VITRO | 25.00 | 10.63 |
| RHODESIENSE | 16.85 | 45.46 |
| NATURAL-PRODUCTS | 16.30 | 25.30 |
| TRYPANOSOMA-BRUCEI | 16.30 | 18.41 |
| GAMBIENSE | 14.67 | 43.80 |
| DRUGS | 10.87 | 8.64 |
| PLASMODIUM-FALCIPARUM | 10.87 | 6.74 |
| ASSAY | 9.78 | 12.01 |
| MEDICINAL-PLANTS | 9.24 | 21.08 |
| EXTRACTS | 8.70 | 18.33 |
| MALARIA | 8.70 | 10.27 |
| TRYPANOSOMA-CRUZI | 8.15 | -5.30 |
| CRUZI | 7.61 | 1.90 |
| DRUG-SENSITIVITY | 7.07 | 35.19 |
| RESISTANCE | 7.07 | 4.02 |
| ANTIPLASMODIAL ACTIVITY | 6.52 | 22.70 |
| BRUCEI | 6.52 | 1.89 |
| DERIVATIVES | 6.52 | 3.19 |
| PLANTS | 6.52 | 11.77 |
| ANTIMALARIAL ACTIVITY | 5.98 | 13.00 |
| **Title Words** | **f(%)** | **σ** |
| ACTIVITY | 38.04 | 19.73 |
| ANTIPROTOZOAL | 34.24 | 54.11 |
| VITRO | 21.20 | 17.25 |
| ACTIVITIES | 12.50 | 14.14 |
| TRYPANOSOMA | 12.50 | -4.59 |
| PLANTS | 11.96 | 27.83 |
| AGAINST | 11.41 | 4.47 |
| EVALUATION | 9.78 | 6.34 |
| EXTRACTS | 9.78 | 21.09 |
| MEDICINAL | 8.70 | 24.11 |
| **Journal** | **f(%)** | **σ** |
| J ETHNOPHARMACOL | 8.15 | 25.99 |
| MOLECULES | 7.61 | 18.48 |
| J NAT PROD | 7.07 | 21.16 |
| PHYTOCHEMISTRY | 5.98 | 23.38 |
| PHYTOTHER RES | 5.98 | 20.81 |
| PLANTA MED | 5.43 | 14.01 |
| EXP PARASITOL | 4.89 | 1.94 |
| BIOORGAN MED CHEM | 3.80 | 5.30 |
| PHARM BIOL | 3.26 | 15.00 |
| J MED CHEM | 2.72 | 3.60 |

| Institution | f(%) | σ |
|---|---|---|
| SWISS TROP INST | 26.63 | 53.21 |
| FAC PHARM | 17.93 | 24.10 |
| UNIV BASEL | 17.39 | 34.78 |
| UNIV ANTWERP | 14.13 | 38.07 |
| DEPT PHARMACOGNOSY | 13.59 | 48.43 |
| SWISS TROP & PUBL HLTH INST | 13.04 | 26.28 |
| DEPT CHEM | 12.50 | 8.06 |
| DEPT MED PARASITOL & INFECT BIOL | 11.41 | 39.98 |
| FAC PHARMACEUT BIOMED & VET SCI | 11.41 | 42.63 |
| INST ORGAN CHEM | 9.78 | 32.29 |
| DEPT PHARMACEUT SCI | 9.24 | 21.17 |
| LMPH | 8.70 | 37.08 |
| UNIV FED SANTA MARIA | 8.15 | 25.46 |
| SCH PHARM | 7.61 | 14.10 |
| COLL PHARM | 7.07 | 19.84 |
| DEPT MICROBIOL & PARASITOL | 7.07 | 9.14 |
| SMITHSONIAN TROP RES INST | 7.07 | 26.67 |
| UNIV LONDON | 7.07 | 21.20 |
| UNIV PANAMA | 6.52 | 18.08 |
| UNIV WURZBURG | 6.52 | 24.15 |
| **Country** | **f(%)** | **σ** |
| Switzerland | 47.28 | 40.12 |
| Germany | 19.57 | 12.26 |
| Belgium | 15.76 | 15.08 |
| Brazil | 14.67 | -6.09 |
| UK | 14.67 | 4.16 |
| USA | 14.67 | -3.40 |
| Panama | 9.78 | 19.81 |
| Spain | 6.52 | 0.33 |
| Turkey | 6.52 | 20.25 |
| France | 5.43 | -0.14 |
| **Author** | **f(%)** | **σ** |
| Brun R | 32.07 | 56.71 |
| Kaiser M | 28.26 | 53.82 |
| Maes L | 13.04 | 38.73 |
| Tasdemir D | 10.33 | 44.05 |
| Cos P | 9.78 | 40.85 |
| Monteiro SG | 8.15 | 33.97 |
| Da Silva AS | 7.61 | 33.82 |
| Schmidt TJ | 6.52 | 29.63 |
| Bringmann G | 5.98 | 36.11 |
| Cubilla-Rios L | 5.43 | 31.49 |

| Reference | f(%) | σ |
|---|---|---|
| Raz B, 1997, ACTA TROP, 68, 139 | 38.59 | 67.66 |
| Buckner FS, 1996, ANTIMICROB AGENTS CH, 40, 2592 | 27.72 | 33.81 |
| Baltz T, 1985, EMBO J, 4, 1273 | 25.00 | 54.62 |
| Matile H, 1990, IMMUNOLOGICAL METHOD | 14.67 | 52.91 |
| Desjardins RE, 1979, ANTIMICROB AGENTS CH, 16, 710 | 13.59 | 34.28 |
| Cunningham I, 1977, J PROTOZOOL, 24, 325 | 13.04 | 34.73 |
| Cos P, 2006, J ETHNOPHARMACOL, 106, 290 | 12.50 | 42.86 |
| Hirumi H, 1989, J PARASITOL, 75, 985 | 10.87 | 20.90 |
| Trager W, 1976, SCIENCE, 193, 673 | 9.78 | 21.59 |
| Makler MT, 1993, AM J TROP MED HYG, 48, 739 | 8.70 | 34.21 |
| Corbett Y, 2004, AM J TROP MED HYG, 70, 119 | 8.15 | 36.88 |
| Huber W, 1993, ACTA TROP, 55, 257 | 7.61 | 30.51 |
| Ridley RG, 1996, ANTIMICROB AGENTS CH, 40, 1846 | 7.61 | 37.55 |
| Colpo Cristina Braccini, 2005, Ciencia Rural, 35, 717 | 5.98 | 30.41 |
| Freiburghaus F, 1996, J ETHNOPHARMACOL, 55, 1 | 5.98 | 30.41 |
| Mikus Judith, 2000, Parasitology International, 48, 265 | 5.98 | 18.03 |
| Bringmann G, 1996, PHYTOCHEMISTRY, 43, 1393 | 5.43 | 33.96 |
| Page B, 1993, INT J ONCOL, 3, 473 | 5.43 | 32.35 |
| Schmidt TJ, 2009, MOLECULES, 14, 2062 | 5.43 | 22.15 |
| Schmidt TJ, 2012, CURR MED CHEM, 19, 2128 | 5.43 | 16.55 |
| **RefJournal** | **f(%)** | **σ** |
| ANTIMICROB AGENTS CH | 61.41 | 18.62 |
| J NAT PROD | 55.43 | 41.33 |
| PLANTA MED | 54.35 | 41.37 |
| ACTA TROP | 53.80 | 9.21 |
| PHYTOCHEMISTRY | 53.26 | 38.94 |
| J ETHNOPHARMACOL | 45.11 | 36.52 |
| PHYTOTHER RES | 27.17 | 25.22 |
| EMBO J | 26.09 | 6.77 |
| AM J TROP MED HYG | 25.54 | -1.88 |
| SCIENCE | 25.00 | -0.43 |
| **Subject** | **f(%)** | **σ** |
| Chemistry, Medicinal | 50.00 | 25.98 |
| Pharmacology & Pharmacy | 43.48 | 22.94 |
| Plant Sciences | 35.33 | 43.08 |
| Biochemistry & Molecular Biology | 19.02 | 1.46 |
| Chemistry, Organic | 11.96 | 8.73 |
| Integrative & Complementary Medicine | 11.96 | 22.02 |
| Chemistry, Multidisciplinary | 8.15 | 6.51 |
| Parasitology | 7.61 | -5.03 |
| Microbiology | 3.80 | -1.56 |
| Medical Laboratory Technology | 3.26 | 6.43 |