Communities ID Cards

This document gathers the “ID Cards” of the BC communities found within your database. The BC network was built by keeping a link between articles sharing at least 1 reference. The communities characterized here correspond to the ones found in the level 2 (in the sense of the Louvain algo) which gathers more than 10 articles. These ID cards display the most frequent keywords, subject categories, journals of publication, institution, countries, authors, references and reference journals of the articles of each community. The significance of an item \( \sigma = \sqrt{N(f - p)/p(1 - p)} \) [where \( N \) is the number of articles within the community and \( f \) and \( p \) are the proportion of articles respectively within the community and within the database displaying that item] is also given (for example \( \sigma > 5 \) is really highly significant).

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Table 1: The community “MANAGEMENT” contains $N = 443$ articles. Its average internal link weight is $\langle \omega_{in} \rangle \simeq 1/811$

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Table 3: The community “POPULATION” contains $N = 161$ articles. Its average internal link weight is $\omega_{in} \simeq 1/400$

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Table 5: The community “ARABIDOPSIS-THALIANA” contains $N = 109$ articles. Its average internal link weight is $\omega_{in} \approx 1/109$

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Table 6: The community “RESISTANCE” contains $N = 107$ articles. Its average internal link weight is $\omega_{in} \simeq 1/41$

| Institution | f(%) | $\sigma$
|-------------|------|--------|
| CTR INT MAIZE & WHEAT | 61.28 | 0.045
| IMPROVEMENT CIMMYT, NEPAL | | |
| TRIBHUVAN UNIV, NEPAL | 34.78 | 0.034
| NEPAL AGR RES COUNCIL, NEPAL | 24.30 | 0.147

| Keyword | f(%) | $\sigma$
|---------|------|--------|
| RESISTANCE | 16.82 | 12.80
| SPRING WHEAT | 14.95 | 18.65
| INHERITANCE | 14.02 | 18.05
| YIELD | 14.02 | 16.34
| HELMINTHOSPORIUM LEAF-BLIGHT | 13.08 | 17.44
| AGRONOMIC PERFORMANCE | 13.08 | 17.44
| BIPOLARIS-SOROKINIANA | 12.15 | 16.80
| GENOTYPES | 11.21 | 14.83
| SOUTH-ASIA | 10.28 | 14.10
| RICE | 10.28 | 13.02
| INDIA | 9.35 | 1.03
| GRAIN-YIELD | 8.41 | 12.51
| NEPAL | 8.41 | 2.42
| SPOT BLOTCH | 7.48 | 13.16
| CROP IMPROVEMENT | 7.48 | 13.16
| MAIZE | 7.48 | 10.52
| SELECTION | 7.48 | 10.05
| TRITICUM-AESTIVUM | 7.48 | 13.16
| MANAGEMENT | 6.54 | 12.31
| GROWTH-STAGES | 6.54 | 12.31

| Subject f(%) | $\sigma$
|-------------|--------|
| Agronomy | 64.49 | 34.93
| Plant Sciences | 46.71 | 19.85
| Horticulture | 21.50 | 22.16
| Agriculture, Multidisciplinary | 7.48 | 5.98
| Genetics & Heredity | 4.67 | 4.79
| Soil Science | 2.90 | 1.91
| Biotechnology & Applied Microbiology | 2.80 | 1.58
| Agricultural Engineering | 1.87 | 2.98
| Food Science & Technology | 1.87 | 9.12
| Environmental Sciences | 1.87 | 2.43

| Country | f(%) | $\sigma$
|---------|------|--------|
| Nepal | 97.20 | -0.65
| India | 31.78 | 4.93
| Mexico | 23.36 | 19.86
| Wales | 15.89 | 14.66
| USA | 10.28 | -2.30
| Bangladesh | 9.35 | 4.19
| Uzbekistan | 8.41 | 13.76
| Germany | 7.48 | 1.31
| Italy | 6.54 | 2.80
| Australia | 5.61 | 0.78

| Reference f(%) | $\sigma$
|-------------|--------|
| Duveiller E, 2005, PHYTOPATHOLOGY (95), 248 | 23.36 | 35.65
| Zadoks JC, 1974, WHEAT RES (14), 415 | 21.50 | 24.51
| Saari EE, 1998, HELMINTHOSPORIUM BLI (0), 37 | 19.63 | 23.47
| Sharma RC, 2004, FIELD CROP RES (89), 205 | 19.63 | 23.47
| Saari EE, 1975, PLANT DIS REP (59), 377 | 17.76 | 22.32
| Dubin HJ, 1998, HELMINTHOSPORIUM BLI (0), 182 | 16.82 | 21.72
| Sharma R C, 2003, Proceedings of Fourth International Wheat Tan Spot and Spot Blotch Workshop (0), 0 | 16.82 | 21.72
| Sharma RC, 2004, PLANT BREEDING (123), 520 | 16.82 | 21.72
| Eyal Z, 1987, SEPTORIA DIS WHEAT C (0), 5 | 15.89 | 21.10
| Reynolds katherine L, 1997, P34 (0), 0 | 15.89 | 21.10
| Das MK, 1992, CROP SCI (32), 1452 | 15.89 | 21.10
| Dubin HJ, 2000, PROCEEDINGS OF THE INTERNATIONAL CONGRESS OF THE INTERNATIONAL ASSOCIATION OF HEREDITY FARMING (0), 1 | 14.95 | 20.47
| Dubin H, 1991, Wheat for the nontraditional warm areas: a proceedings of the International Conference July 29-August 1 1990 Fox do Iguacu (0), 125 | 14.02 | 19.82
| Sharma RC, 2004, EUPHYTICA (139), 33 | 14.02 | 19.82
| Duveiller E, 1994, WHEAT HEAT STRESSED (0), 343 | 14.02 | 19.82
| Joshi AK, 2004, PLANT BREEDING (123), 213 | 13.08 | 19.14
| Withcombe JR, 1996, EXP AGR (32), 445 | 12.15 | 18.44
| Joshi AK, 2007, EUPHYTICA (154), 59 | 12.15 | 18.44
| Joshi AK, 2002, EUPHYTICA (121), 221 | 11.21 | 17.71
| Joshi AK, 2007, EUPHYTICA (154), 135 | 11.21 | 17.71

| Journal | f(%) | $\sigma$
|---------|------|--------|
| EUPHYTICA | 65.42 | 38.29
| FIELD CROP RES | 60.75 | 36.55
| CROP SCI | 57.94 | 35.01
| HELMINTHOSPORIUM BLI | 35.51 | 31.66
| PHYTOPATHOLOGY | 34.58 | 23.42
| PLANT DIS | 29.91 | 23.87
| PLANT BREEDING | 29.91 | 23.36
| EXP AGR | 28.04 | 24.07
| AGRON J | 23.36 | 21.04
| WHEED RES | 23.36 | 24.52

| Title词 f(%) | $\sigma$
|-------------|--------|
| WHEAT | 50.47 | 36.55
| SPOT | 25.23 | 25.23
| BLOTCH | 23.36 | 25.16
| NEPAL | 18.69 | -3.52
| RESISTANCE | 18.69 | 13.03
| RICE | 14.02 | 8.32
| ASIA | 13.08 | 8.32
| UNDER | 12.15 | 9.21
| SPRING | 12.15 | 17.12
| YIELD | 12.15 | 12.35

| Author f(%) | $\sigma$
|-------------|--------|
| Sharma RC | 29.91 | 28.17
| Duveiller E | 27.10 | 27.19
| Joshi AK | 25.23 | 25.71
| Ortiz-Ferrara G | 14.02 | 19.86
| Chand R | 12.15 | 18.49
| Witcombe JR | 12.15 | 18.49
| Joshi KD | 10.28 | 17.00
| Sthapit BR | 8.41 | 15.37
| Tiwari TP | 7.48 | 14.49
Table 7: The community “DISORDERS” contains N = 100 articles. Its average internal link weight is <ω_in> ≃ 1/246

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Table 8: The community “FEVER” contains $N = 95$ articles. Its average internal link weight is $< \omega_{in} > \approx 1/62$

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Table 9: The community “KALA-AZAR” contains N = 93 articles. Its average internal link weight is $\omega_{in} \simeq 1/36$.

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Table 10: The community “PREVALENCE” contains N = 76 articles. Its average internal link weight is $<\omega_{in}> \simeq 1/72$

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Table 12: The community “CONTAMINATION” contains $N = 63$ articles. Its average internal link weight is $<\omega_{in}> \approx 1/205$

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Table 13: The community “MORPHOLOGY” contains \( N = 58 \) articles. Its average internal link weight is \( \omega_{in} \simeq 1/31 \)

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Table 14: The community “INDIA” contains \(N = 51\) articles. Its average internal link weight is \(< \omega_{in} > \simeq 1/66\)

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Table 15: The community “INDIA” contains $N = 51$ articles. Its average internal link weight is $<\omega_{in}> \simeq 1/139$

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Table 16: The community “ACUTE MOUNTAIN-SICKNESS” contains $N = 48$ articles. Its average internal link weight is $<\omega_{in}> \approx 1/43$

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Table 17: The community “ADSORPTION” contains \( N = 41 \) articles. Its average internal link weight is \( \omega_{in} \approx 1/89 \)

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Table 18: The community “INFECTION” contains $N = 40$ articles. Its average internal link weight is $<\omega > \simeq 1/56$

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Table 19: The community “MYCOBACTERIUM-LEPRAE” contains N = 35 articles. Its average internal link weight is $<\omega_{in}> \simeq 1/56$

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Table 20: The community “DAIRY-COWS” contains N = 26 articles. Its average internal link weight is $< \omega_{in} > \equiv 1/50$

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Table 22: The community “SOUTHEASTERN NEPAL” contains N = 20 articles. Its average internal link weight is $< \omega_{in} > \simeq 1/19$

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Table 23: The community “NEPALESE ORIGIN” contains N = 15 articles. Its average internal link weight is < $\omega_{in}$ > $\simeq$ 1/8

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Table 24: The community “PHYSICIANS” contains $N = 13$ articles. Its average internal link weight is $< \omega_{in} \cong 1/33$

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MEDICAL, NEPAL, RURAL, STUDENTS, CAREER, COMMUNICATION, PATIENTS, GENERAL, PATIENT-CENTRED
Table 25: The community “LOCAL-SUPERCLUSTER” contains $N = 12$ articles. Its average internal link weight is $< \omega_{in} > \simeq 1/3$

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