**Abstract Information**

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| **Abstract #** | **Title** | **Word Count** | **#Words (Verified by WordNet)** | **#Medical Words**  **(Verified by Bioportal / BioNLP)** |
| 1 (30169534 ) | **Kunitz type protease inhibitor EgKI-1 from the canine tapeworm Echinococcus granulosus as a promising therapeutic against breast cancer.** | 164 | 79 | 19 |
| 2 (30169506) | **Sexual dysfunction in Spanish women with breast cancer** | 236 | 93 | 24 |
| 3 (30150016) | **Multi-institutional evaluation of the reproducibility and the accuracy of the objective breast cosmesis scale.** | 199 | 76 | 6 |
| 4 (30168485) | **S961, a biosynthetic insulin receptor antagonist, downregulates insulin receptor expression & suppresses the growth of breast cancer cells.** | 222 | 91 | 18 |
| 5 (30168090) | **Long-term influence of adjuvant breast radiotherapy on cognitive function in breast cancer patients treated with conservation therapy.** | 237 | 114 | 13 |
| 6 (30168014) | **Time to death in breast cancer patients as an indicator of treatment response.** | 116 | 53 | 15 |
| 7 (30158589) | **CXCL1 derived from tumor-associated macrophages promotes breast cancer metastasis via activating NF-κB/SOX4 signaling.** | 194 | 97 | 35 |
| 8 (30158412) | **[A Phase I Combination Dose-Escalation Study of Eribulin Mesylate and Gemcitabine in Japanese Patients with Metastatic Breast Cancer].** | 219 | 79 | 24 |
| 9 (30157902) | **Advances in circular RNAs and their roles in breast Cancer.** | 121 | 47 | 8 |
| 10 (30153865) | **Personal goal-setting among women living with breast cancer: protocol for a scoping review.** | 174 | 73 | 12 |

# Abstract 1:

**POS:**  Nouns: 46

**POS:**  Verbs: 21

**NER:** Name: 9

**POS:**  **Nouns:** (after removing duplicates)

treatment,controls,molecules,findings,EgKI1,range,apoptosis,promise,manner,type,cell,cycle,mice,

protease,Kunitz,inhibitor,ungulates,member,oncosphere,model,lines,BALB/c,tapeworm,organs,

development,Echinococcus,granulosus,liver,protoscoleces,melanoma,hydatid,cells,stage,tumor,

migration,cancers,cyst,growth,cancer,family,rise,reduction,humans,breast,properties,MDA-MB-231

**POS: Verb:**

been,arrested,including,possess,show,affecting,is,develop,giving,identified,shows,shown,involved,induced,

Showed, have, inhibits, indicate, expressed, disrupting, compared

**NER: Name:**

Model- TITLE, breast-CAUSE\_OF\_DEATH, Echinococcus-MISC, melanoma-CAUSE\_OF\_DEATH, cancer-CAUSE\_OF\_DEATH, tumor-CAUSE\_OF\_DEATH, future-DATE, cervical-CAUSE\_OF\_DEATH, Kunitz-PERSON

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| **Type** | **Count** | **Examples** |
| **POS : Nouns** | 46 |  |
| **POS: Verbs** | 21 |  |
| **NER : Name** | 9 |  |
| **Triplets** | 634 |  |
| **Medical Words: Species** | 10 (considering duplicates) | Canine, Echinococcus granulosus, humans, Larval, human, BALB/c, nude mice, mice |
| **Disease** | 9 | breast cancer, cancer, cancers, breast, melanoma and cervical cancer, tumor |

# Abstract 2:

**POS:**  Noun: 49

**POS:**  Verb: 21

**NER:** Name: 26

**POS: Nouns**

date,sexuality,data,mastectomy,lubrication,chemotherapy,years,instruments,function,presence,January,Women,circumstances,%,diagnosis,excitement,Sexual,radiotherapy,adjustment,women,problems, June,study,questionnaire,dysfunctions,differences,professionals,changes,Two-thirds, dysfunction, Function, SD,relationship,participants,variables,pain,cases,desire,penetration,Health,deviation,p, interventions,cancer,time,relations,breast,hormonal-therapy,age

**POS: Verbs**

facilitate,determine,suffering,satisfied,understand,was,gathered,had,received,is,investigate,used,recognize,influence,are,were,presented,included,collect,make, changed

**NER:**

46.34-NUMBER,breast-CAUSE\_OF\_DEATH,8.28-DURATION,50.6-PERCENT,21-NUMBER,January-DATE,SD-STATE\_OR\_PROVINCE,0.009-NUMBER,8.56-DURATION,0.001-NUMBER,0.002-NUMBER,66-years-old-DURATION,4.05-NUMBER,June-DATE,2017-DATE,5.23-DURATION,514-NUMBER,±-NUMBER,%-PERCENT,44.6-PERCENT,42.26-NUMBER,years-DURATION,91.2-PERCENT,32.1-PERCENT,cancer-CAUSE\_OF\_DEATH,2016-DATE

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| **Type** | **Count** | **Examples** |
| **POS : Nouns** | 49 |  |
| **POS: Verb** | 21 |  |
| **NER** | 26 |  |
| **Triplet** | 494 |  |
| **Medical Words: Disease** | 15 | Sexual dysfunction, breast cancer, pain, cancer |
| **Species** | 9 | Women, participants |

# Abstract 3:

**POS:**  Noun: 47

**POS:**  Verb: 20

**NER:** Name: 25

**POS: Nouns**

hospitals,treatment,aim,trainees,scores,changes,cohort,cosmesis,trainee,oncology,irradiation,variation,Cosmesis,features,patient,centers,studies,cosmetic,brachytherapy,France,distances,females,%,work,OBCS,patients,Scale,merit,males,Perugia,oncologist,Objective,Agreement,photograph,BCS,photographs,correlation,radiation,specialist,doctors,Breast,coefficient,Italy,investigation,breast,surgery,applications

**POS: Verb:** treated,using,measuring,Using,was,analyzed,is,had,received,recorded,accelerated,undergone,fractionated,assess,ranged,were,taken,record,enrolled,compared

**NER:**

Perugia-ORGANIZATION,to-NUMBER,France-COUNTRY,specialist-TITLE,0.952-NUMBER,26.5-PERCENT,present-DATE,Nice-ORGANIZATION,Italy-COUNTRY,13-PERCENT,surgery-CAUSE\_OF\_DEATH,oncologist-TITLE,21.4-PERCENT,0.950-NUMBER,one-NUMBER,12-PERCENT,future-DATE,%-PERCENT,0.876-NUMBER,two-NUMBER,0.867-NUMBER,four-NUMBER,OBCS-ORGANIZATION,One-NUMBER,Nineteen-NUMBER

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| --- | --- | --- |
| **Type** | **Count** | **Examples** |
| **POS : Nouns** | 47 |  |
| **POS: Verbs** | 20 |  |
| **NER** | 25 |  |
| **Triplets** | 19613 |  |
| **Medical Words: Species** | 6 | Patients, male, patient |

# Abstract 4:

**POS:**  Noun: 56

**POS:**  Verb: 25

**NER:** Name: 5

**POS:**  **Nouns**

modality,antagonism,MTT,antagonist,overexpression,outcomes,presence,potential,receptors,S961,IR,owing,Insulin,-2,5-diphenyltetrazoliumbromide,resistance,Studies,pathogenesis,insight,dose,4,5-dimethylthiazol-2-yl,effect,hyperinsulinaemia,IR-B,parameters,PCR,isoform,IR-A,treatment,study,role,insulin,colony,MCF-7,aspects,isoforms,mRNA,formation,cell,metastasis,rate,tumour,lines,signalling,phenotype,expression,proliferation,IRs,T47D,cells,carcinoma,assay,cancer,growth,breast,MDA-MB-231,levels

**POS: Verbs**

measured,been,be,investigate,downregulated,found,appeared,blocked,have,revealed,inhibited,evaluated,expressed,upregulated,linked,using,including,was,continued,aimed,regulates,provide,were,associated,showed

**NER:**

MTT-ORGANIZATION, 3-NUMBER, breast-CAUSE\_OF\_DEATH, metastasis-CAUSE\_OF\_DEATH, cancer-CAUSE\_OF\_DEATH

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| **Type** | **Count** | **Examples** |
| **POS : Noun** | 56 |  |
| **POS: Verb** | 25 |  |
| **NER : Name** | 5 |  |
| **Triplet** | 1871 |  |
| **Medical Words: Gene** | 6 | Insulin, insulin receptor |
| **Chemical** | 3 | MTT, 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazoliumbromide, S961 |
| **Disease** | 8 | breast tumor, breast cancer, breast carcinoma, metastasis |
| **Species** | 1 | Human |

# Abstract 5:

**POS:**  Nouns: 42

**POS:**  Verbs: 17

**NER:** 34

**POS: Nouns**

treatment,study,memory,year,Memory,changes,association,areas,covariance,Index,recovery,years,Pearson,

function,decline,studies,interleukin,relationship,mechanisms,group,process,IL,Wechsler,test,therapy,patients,Immediate,brain,WMS-R,analysis,IL-6,n,Verbal,conservation,indices,correlation,radiotherapy,coefficient, cancer, plasma, breast, levels

**POS: Verbs**

mediated,measured,directed,using,be,Delayed,decreased,was,remains,underlying,performed,suggested,involved,restored,Recall,evaluated,investigated

**NER:**

the-MISC,Scale-Revised-PERSON,breast-CAUSE\_OF\_DEATH,IL-STATE\_OR\_PROVINCE,-6-NUMBER,2-DURATION,Recall-MISC,WMS-R-MISC,previously-DATE,22-NUMBER,Memory-PERSON,Delayed-MISC,Verbal-MISC,IL-6-MISC,present-DATE,1-NUMBER,2-NUMBER,Wechsler-PERSON,more-DURATION,Index-MISC,of-MISC,Immediate-MISC,1-DURATION,Memory-MISC,than-DURATION,25-NUMBER,Pearson-PERSON,year-DURATION,years-DURATION,two-NUMBER,47-NUMBER,cancer-CAUSE\_OF\_DEATH,3-DURATION,×-NUMBER

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| **Type** | **Count** | **Examples** |
| **POS : Noun** | 42 |  |
| **POS: Verb** | 17 |  |
| **NER : Name** | 34 |  |
| **Triplet** | 133 |  |
| **Medical Words: Disease** | 4 | Breast Cancer , cognitive decline |
| **Gene** | 6 | IL-6, interleukin (IL)-6 |
| **Species** | 3 | Patients |

# Abstract 6:

**POS: Nouns: 30**

**POS: Verbs: 11**

**NER: 6**

**POS: Nouns**

benefits,treatment,death,distinction,use,cure,experience,representations,treatments,metastases,patient,Kaplan-Meier,period,histograms,probability,rates,survival,impact,factors,curves,likelihood,mortality,cancer,

growth , metrics, time, breast, cohorts, women, statistics

**POS: Verbs**

die,facilitate,using,including,delay,generated,display,was,describe,helps,increase

**NER:**

Breast- CAUSE\_OF\_DEATH, annual-SET, present-DATE, 20-year-DURATION, cancer-CAUSE\_OF\_DEATH,

Three-NUMBER

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| **Type** | **Count** | **Examples** |
| **POS : Noun** | 30 |  |
| **POS: Verb** | 11 |  |
| **NER : Name** | 6 |  |
| **Triplet** | 196 |  |
| **Medical Words: Disease** | 10 | Death, breast cancer, metastases, cancer |
| **Species** | 5 | Women, patients, patient |

# Abstract 7:

**POS: Noun: 52**

**POS: Verbs: 24**

**NER: 7**

**POS: Nouns**

screening,transcription,xenografts,administration,CXCL1,NF-κB/SOX4,mouse,NF-κB,outcomes,loop,cytokines,promoter,TAMs/CXCL1,motif,results,SOX4,prevention,cytokine,gene,survival,analysis,node,activation,C-X-C,chemokine,study,targets,ligand,silencing,burden,macrophages,lymph,TAMs,metastasis,array,subtype,ability,expression,therapy,QPCR,transition,cells,invasion,migration,investigation,pathway,cancer,growth,reduction,strategy,breast,promotion

**POS: Verbs**

binds,been,indicated,is,Taken,secreted,required,activates,existing,promote,suggested,identified,associating,validated,are,following,have,revealed,implicated,promotes,demonstrated,results,correlated,become

**NER:**

Breast-CAUSE\_OF\_DEATH, metastasis-CAUSE\_OF\_DEATH, TAM-secreted-MISC, Bioinformatic-MISC,

1-NUMBER, cancer-CAUSE\_OF\_DEATH, gene-TITLE

|  |  |  |
| --- | --- | --- |
| **Type** | **Count** | **Examples** |
| **POS : Noun** | 52 |  |
| **POS: Verb** | 24 |  |
| **NER : Name** | 7 |  |
| **Triplet** | 2073 |  |
| **Medical Words: Chemical** | 1 | TAM |
| **Disease** | 17 | Tumor, breast cancer, metastasis, reduction in breast cancer |
| **Gene** | 14 | CXCL1, SOX4, C-X-C motif chemokine ligand 1 |
| **Species** | 3 | Mouse, Human, Xenografts |

# Abstract 8:

**POS: Nouns: 38**

**POS: Verbs: 26**

**NER: 13**

**POS: Nouns**

toxicity,treatment,study,doses,DLT,interactions,conclusion,mg/m2,safety,patient,possibility,combination,

group,phase,therapy,eribulin,patients,toxicities,neutropenia,mesylate,Grade,efficacy,GEM,agents,

mucositis,dose,RD,trials,tolerability,Drugdrug,maximum,cancer,gemcitabine,Level,MTD,ERI,breast,option

**POS: Verbs**

been,tolerated,be,scheduled,investigate,confirmed,observed,approved,found,continue,have,has,evaluated,enrolled,established,including,occurred,escalated,was,conducted,received,is,limiting,recommended,regarded,were

**NER:**

3-NUMBER, 4-NUMBER, breast-CAUSE\_OF\_DEATH, 1.4-NUMBER, ERI-ORGANIZATION, II-NUMBER, Japanese-NATIONALITY, 1-NUMBER, 0-NUMBER, 1.1-NUMBER, Seven-NUMBER, Cancer-CAUSE\_OF\_DEATH,

800-NUMBER

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| **Type** | **Count** | **Examples** |
| **POS : Noun** | 38 |  |
| **POS: Verb** | 26 |  |
| **NER : Name** | 13 |  |
| **Triplet** | 932 |  |
| **Medical Words: Chemical** | 7 | GEM, Gemcitabine |
| **Disease** | 9 | Breast cancer, toxicity, oral mucositis, neutropenia, toxicities |
| **Species** | 8 | Patients, Patient |

# Abstract 9:

**POS: Nouns: 35**

**POS: Verbs: 18**

**NER: 6**

**POS: Nouns**

circRNAs,sponges,evidence,functions,transcription,death,cause,progression,type,targets,sequencing,ceRNAs,loop,proteins,review,miRNA,knowledge,development,implications,tissues,proliferation,gene,biomarkers,RNAs,diagnosis,diseases,pathways,prognosis,structure,pathogenesis,translation,Breast,cancer,breast,women

**POS: Verbs**

been,discovered,including,be,interacting,leading,understand,is,serving,occurring,suggests,involved,are,have,Emerging,regulating,summarize,suggesting

**NER:**

Diseases-CAUSE\_OF\_DEATH, current-DATE, breast-CAUSE\_OF\_DEATH, Breast-CAUSE\_OF\_DEATH, cancer-CAUSE\_OF\_DEATH, gene-TITLE

|  |  |  |
| --- | --- | --- |
| **Type** | **Count** | **Examples** |
| **POS : Noun** | 35 |  |
| **POS: Verb** | 18 |  |
| **NER : Name** | 6 |  |
| **Triplet** | 927 |  |
| **Medical Words: Disease** | 6 | Cancer, Breast cancer, death |
| **Species** | 2 | Women, Human |

# Abstract 10:

**POS: Nouns: 50**

**POS: Verbs: 19**

**NER: 9**

**POS: Nouns**

incorporation,screening,evidence,data,priorities,protocol,outcomes,review,context,results,goals,Women,CINAHL,well-being,databases,diagnosis,population,insight,effects,extract,Cochrane,effect,Library,support,

women,care,MEDLINE,treatment,study,aim,methods,tools,measurement,literature,motivations,AMED,studies,goal-setting,participants,PsycInfo,EMBASE,females,reviewers,component,interventions,Breast

, cancer, information, breast, articles

**POS: Verbs**

be,examine,contributing,is,published,approaches,describes,searched,existing,search,provide,conduct,have,reported,optimizing,Incorporating,scoping,map,chart

**NER:**

Cochrane-ORGANIZATION, Library-ORGANIZATION, breast-CAUSE\_OF\_DEATH, Breast-CAUSE\_OF\_DEATH, Two-NUMBER, independent-RELIGION, cancer-CAUSE\_OF\_DEATH, MEDLINE-ORGANIZATION, AMED-ORGANIZATION

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| --- | --- | --- |
| **Type** | **Count** | **Examples** |
| **POS : Noun** | 50 |  |
| **POS: Verb** | 19 |  |
| **NER : Name** | 9 |  |
| **Triplet** | 1236 |  |
| **Medical Words: Disease** | 7 | Women’s personal goals ,breast cancer |
| **Species** | 5 | Women, participants |