

Claim	Formalization of the scientific claim with the <a href="#">Super-Pattern</a>					Scientific claim as an AIDA sentence	Article identification
	Context	Subject	Qualifier	Relation	Object		
1	NONE	new-series-of-chitosan-based-polyurethane-elastomers-using-PCL	generally	is same as	synthesizable-material	A new series of chitosan based polyurethane elastomers (PUEs) using aromatic diisocyanate poly( $\epsilon$ -caprolactone) (PCL) can be synthesized.	<a href="https://www.semanticscholar.org/paper/Synthesis-and-molecular-characterization-of-based-Zia-Anjum/25610e37a5f82b59056f046526df5a6b6c16776e">https://www.semanticscholar.org/paper/Synthesis-and-molecular-characterization-of-based-Zia-Anjum/25610e37a5f82b59056f046526df5a6b6c16776e</a>
2	operant-research	inexpensive-photocell-for-arduino-vb-interface	can generally	contributes to	recording-controlling-events-activity	Inexpensive photocells for the Arduino-Visual Basic interface can be used for recording and controlling events in operant research.	<a href="https://www.semanticscholar.org/paper/New-Technologies-Applied-to-Operant-Research%3A-for-Escobar-Santill%3%A1n/0b5783130ba4447156b271d2dcdf9894a40ff995">https://www.semanticscholar.org/paper/New-Technologies-Applied-to-Operant-Research%3A-for-Escobar-Santill%3%A1n/0b5783130ba4447156b271d2dcdf9894a40ff995</a>
3	interleukin-12-produced-by-Toll-like-receptor-cells	Behcet's-disease	generally	contributes to	increased-T-helper1-cell-number	Interleukin (IL)-12 produced by Toll-like receptor (TLR)-expressing cells contributes to the induction of excessive (immune response) T helper 1 (Th1)-dominant immune responses in intestinal [disease] Behcet's disease (BD).	<a href="https://www.semanticscholar.org/paper/Involvement-of-innate-immunity-in-the-pathogenesis-Nara-Kurokawa/c25683072710c6ee76e38f72ca95f0d315b543b">https://www.semanticscholar.org/paper/Involvement-of-innate-immunity-in-the-pathogenesis-Nara-Kurokawa/c25683072710c6ee76e38f72ca95f0d315b543b</a>
4	sinorhizobium-melioli	molecular-mechanisms-participatein-symbiosis	sometimes	is same as	molecular-mechanisms-participatein-pathogenesis	Symbiosis and pathogenesis of Sinorhizobium melioli share common molecular mechanisms.	<a href="https://www.semanticscholar.org/paper/Transcriptome-analysis-of-Sinorhizobium-melioli-Ampe-Kiss/28de6940e26f1c0986c9d25a5a5f395d050d812c">https://www.semanticscholar.org/paper/Transcriptome-analysis-of-Sinorhizobium-melioli-Ampe-Kiss/28de6940e26f1c0986c9d25a5a5f395d050d812c</a>
5	dictyostelium-discoideum	RrpC	generally	prevents	reverse-transcription-of-DIRS1-retrotransposon	RrpC in Dictyostelium discoideum silences post-transcriptionally the retrotransposon DIRS-1.	<a href="https://www.semanticscholar.org/paper/The-Dictyostelium-discoideum-RNA-dependent-RNA-RrpC-Wiegand-Meier/b11bc966cc6928a9fcbcaebc7f9d37e2888fe8f">https://www.semanticscholar.org/paper/The-Dictyostelium-discoideum-RNA-dependent-RNA-RrpC-Wiegand-Meier/b11bc966cc6928a9fcbcaebc7f9d37e2888fe8f</a>
6	asterix-comic-books	traumatic-brain-injury	generally not	causes	permanent-neurological-deficit	In the Asterix illustrated comic books, incidences of traumatic brain injury lead to no permanent neurological deficits.	<a href="https://www.semanticscholar.org/paper/Traumatic-brain-injuries-in-illustrated-literature%3A-Kamp-Slotty/184f548cd80c40f3a45dc2135d2c2d2cfe9df3">https://www.semanticscholar.org/paper/Traumatic-brain-injuries-in-illustrated-literature%3A-Kamp-Slotty/184f548cd80c40f3a45dc2135d2c2d2cfe9df3</a>
7	SIMPLE STATEMENT	unique-state-of-Being-in-immersive-virtual-environments	NONE	has created	paradigm-shift-in-what-humans-are-now-able-to-experience	The unique state of Being in immersive virtual environments (VEs) has created a paradigm shift in what humans are now able to experience.	<a href="https://www.semanticscholar.org/paper/Performing-in-virtual-spaces%3A-Embodiment-and-in-Morie/80cb2b87b060859c47073a1c4f1ca7c2d4ae292e">https://www.semanticscholar.org/paper/Performing-in-virtual-spaces%3A-Embodiment-and-in-Morie/80cb2b87b060859c47073a1c4f1ca7c2d4ae292e</a>
8	biodiesel-transesterification-reactions	use-of-ultrasound-irradiation	generally not	requires	additional-heating-as-catalyst-for-chemical-reaction	The use of ultrasound irradiation in biodiesel transesterification reactions does not require any additional heating.	<a href="https://www.semanticscholar.org/paper/Biodiesel-by-Transesterification-of-Rapeseed-Oil-A-Encinar-Pardal/eaab45d248cebb1d42af6377f4783b6483d9d8ff">https://www.semanticscholar.org/paper/Biodiesel-by-Transesterification-of-Rapeseed-Oil-A-Encinar-Pardal/eaab45d248cebb1d42af6377f4783b6483d9d8ff</a>
9	web-representations-of-people	activity-of-assigning-NDC-labels	can generally	contributes to	people-directory-service	Assigning Nippon Decimal Classification (NDC) numbers to people on the Web, labels can be assigned to people and a NDC-based people directory can be built.	<a href="https://www.semanticscholar.org/paper/People-search-using-NDC-classification-system-Murakami-Ura/23a6ae24c8ca8abd7b60c876e5f30b649ce459cd">https://www.semanticscholar.org/paper/People-search-using-NDC-classification-system-Murakami-Ura/23a6ae24c8ca8abd7b60c876e5f30b649ce459cd</a>
10	very-deep-neural-networks	performance-of-training-with-explicit-reformulation-of-layers-with-learning-residual-functions-with-reference-to-input-layers	generally	has larger value than	performance-of-training-with-learning-unreferenced-functions	Very deep neural networks that use training that explicitly reformulates the layers as learning residual functions with reference to the layer inputs instead of learning unreferenced functions are easier to optimize.	<a href="https://www.semanticscholar.org/paper/Deep-Residual-Learning-for-Image-Recognition-He-Zhang/2c03df8b48b3fa39054345bafabfeff15bf1d1d">https://www.semanticscholar.org/paper/Deep-Residual-Learning-for-Image-Recognition-He-Zhang/2c03df8b48b3fa39054345bafabfeff15bf1d1d</a>
11	menopausal-women	intake-of-licorice-roots	generally	decreases	frequency-of-vasomotor-hot-flashes	The intake of licorice roots decreases the frequency of vasomotor hot flashes in menopausal women.	<a href="https://www.semanticscholar.org/paper/Effects-of-Licorice-on-Relief-and-Reurrence-of-Hot-Nahid-Zare/bafcd823a17b202093bd584ec5195ffb3a47d4251">https://www.semanticscholar.org/paper/Effects-of-Licorice-on-Relief-and-Reurrence-of-Hot-Nahid-Zare/bafcd823a17b202093bd584ec5195ffb3a47d4251</a>
12	Japanese-higher-level-education-curricula	excellence-of-curriculum	generally	requires	CLIGAL-L1-japanese-L2-english	CLIGAL (content language integrated global awareness learning) in L1 Japanese and L2 English are necessary to create excellence across the Japanese higher education curriculum.	<a href="https://www.semanticscholar.org/paper/Creative-Excellence-in-the-Japanese-University%3A-and-Brady-Higgins/630b2a428b277bc20be1db4e97fc5b40d6481898">https://www.semanticscholar.org/paper/Creative-Excellence-in-the-Japanese-University%3A-and-Brady-Higgins/630b2a428b277bc20be1db4e97fc5b40d6481898</a>
13	tomicus-piniperda	lodgepole-pine	generally	is necessary and sufficient for	survival	Tomicus piniperda can survive entirely on lodgepole pine.	<a href="https://www.semanticscholar.org/paper/Pinus-contorta-as-a-potential-host-for-Tomicus-L-L%3C3%A5ngstr%3C%86m-Hellqvist/69ec6852f927784752b3d404404beca02b76293e">https://www.semanticscholar.org/paper/Pinus-contorta-as-a-potential-host-for-Tomicus-L-L%3C3%A5ngstr%3C%86m-Hellqvist/69ec6852f927784752b3d404404beca02b76293e</a>
14	NONE	human-ovarian-cancer-cell-lines-and-human-endometrial-cancer-cell-lines	frequently	includes	misidentification	Human ovarian and endometrial cancer cell lines are frequently misidentified.	<a href="https://www.semanticscholar.org/paper/DNA-profiling-analysis-of-endometrial-and-ovarian-Korch-Spillman/d7f261350333ac7149afee8062ae8c59e7695448">https://www.semanticscholar.org/paper/DNA-profiling-analysis-of-endometrial-and-ovarian-Korch-Spillman/d7f261350333ac7149afee8062ae8c59e7695448</a>
15	laser-applications	information-about-relative-strength-of-individual-modes-of-a-laser-beam	can sometimes	enables	evaluation-of-beam-quality	For certain important applications information about relative strength of the individual modes of a laser beam is sufficient to evaluate beam quality.	<a href="https://www.semanticscholar.org/paper/Online-laser-beam-characterization-by-means-of-Duparre-Rockstuhl/cb8b45f16d53e1915b30d909e56434721ffe70d0">https://www.semanticscholar.org/paper/Online-laser-beam-characterization-by-means-of-Duparre-Rockstuhl/cb8b45f16d53e1915b30d909e56434721ffe70d0</a>
16	SIMPLE STATEMENT	average-time-debt-restructurings-with-private-creditors-in-democracies	NONE	has a value larger than	average-time-debt-restructurings-with-private-creditors-in-autocracies	Debt restructurings with private creditors in democracies experience longer restructurings than in autocracies.	<a href="https://www.semanticscholar.org/paper/Time-for-a-haircut%3A-political-regimes-and-sovereign-Mamone/768d1971c11221a82422e4d416112915129917ab">https://www.semanticscholar.org/paper/Time-for-a-haircut%3A-political-regimes-and-sovereign-Mamone/768d1971c11221a82422e4d416112915129917ab</a>
17	NONE	viable-quaternion-based-complementary-observers-for-rigid-body-attitude-estimation	generally	contributes to	human-motion-applications	Viable quaternion-based complementary observers that are designed for rigid body attitude estimation are promising for human motion applications such as ambulatory monitoring.	<a href="https://www.semanticscholar.org/paper/Complementary-Observer-for-Body-Segments-Motion-by-Fourati-Manamanni/b18c35636d8b29fe0dc7ff879781d8a6cd358c91">https://www.semanticscholar.org/paper/Complementary-Observer-for-Body-Segments-Motion-by-Fourati-Manamanni/b18c35636d8b29fe0dc7ff879781d8a6cd358c91</a>
18	dense-hydrogen-plasma	quantum-diffraction-effect	generally	has larger value than	electron-ion-correlation-effect	In dense hydrogen plasmas, quantum diffraction effects prevail over electron-ion correlation effects.	<a href="https://www.semanticscholar.org/paper/Correlation-effects-on-the-temperature-relaxation-Daligault-Dimonte/d8de6a0b4c8643e89f66e4ef6445c0b5a68a5b">https://www.semanticscholar.org/paper/Correlation-effects-on-the-temperature-relaxation-Daligault-Dimonte/d8de6a0b4c8643e89f66e4ef6445c0b5a68a5b</a>
19	bus-networks	application-of-multi-agent-paradigm	can generally	contributes to	improvement-of-management-of-bus-networks	The multi-agent paradigm is beneficial for improving the management of bus networks.	<a href="https://www.semanticscholar.org/paper/An-Agent-oriented-approach-to-Transportation-Balbo-Pinson/108e77aaa0db3a739bd1d485fc567765588331">https://www.semanticscholar.org/paper/An-Agent-oriented-approach-to-Transportation-Balbo-Pinson/108e77aaa0db3a739bd1d485fc567765588331</a>
20	acute-anterior-circulation-cerebral-infarction	efficacy-treatment-with-shuxuetong-and-butylphthalide	generally	has larger value than	efficacy-treatment-with-shuxuetong alone	Treatment of acute anterior circulation cerebral infarction with Shuxuetong and Butylphthalide is more efficacious than treatment with Shuxuetong alone.	<a href="https://www.semanticscholar.org/paper/The-Efficacy-of-Butylphthalide-and-Shuxuetong-in-of-Na/0668b4e01e5971767a2bbafa93e371dd78901e2">https://www.semanticscholar.org/paper/The-Efficacy-of-Butylphthalide-and-Shuxuetong-in-of-Na/0668b4e01e5971767a2bbafa93e371dd78901e2</a>
21	patients-with-acute-embolic-stroke-in-anterior-cerebral-circulation	treatment-with-hyperbaric-oxygen-therapy-and-with-intravenous-edaravone-administration	generally	is same as	effective-treatment	Hyperbaric oxygen therapy combined with intravenous edaravone administration is effective for the treatment of patients with acute embolic stroke in the anterior cerebral circulation.	<a href="https://www.semanticscholar.org/paper/Hyperbaric-oxygen-combined-with-intravenous-of-Imai-Mori/81dfe750306ab6ccf44de1161be338e551f1006">https://www.semanticscholar.org/paper/Hyperbaric-oxygen-combined-with-intravenous-of-Imai-Mori/81dfe750306ab6ccf44de1161be338e551f1006</a>
22	DMET-array	SNP-call-rate-required-for-saliva-derived-DNA	generally	has smaller value than	SNP-call-rate-required-for-blood-derived-DNA	Saliva-derived DNA requires fewer SNP calls compared to blood-derived DNA on the DMET Array.	<a href="https://www.semanticscholar.org/paper/Genotyping-Performance-between-Saliva-and-Genomic-A-Hu-Ehli/135fd26cf074ef77284176eb7f713d9f664a829">https://www.semanticscholar.org/paper/Genotyping-Performance-between-Saliva-and-Genomic-A-Hu-Ehli/135fd26cf074ef77284176eb7f713d9f664a829</a>
23	steel-plant-in-Thailand	CO2-emission	frequently	is caused by	electricity-generation	One of the major CO2 emission sources in Thai steel industry is electricity generation.	<a href="https://www.semanticscholar.org/paper/The-current-situation-on-CO2-emissions-from-the-in-Sodsai-Rachdawong/b19d8ae52b6ee193c106966c830ac4ec738e35ca">https://www.semanticscholar.org/paper/The-current-situation-on-CO2-emissions-from-the-in-Sodsai-Rachdawong/b19d8ae52b6ee193c106966c830ac4ec738e35ca</a>



Claim	Formalization of the scientific claim with the <a href="#">Super-Pattern</a>					Scientific claim as an AIDA sentence	Article identification
	Context	Subject	Qualifier	Relation	Object		
46	ventricular-septal-defect-and-left-ventricular-outflow-tract-obstruction	transposition-of-great-arteries-with-Lecompte-procedure-and-Rastelli-repair	generally	contributes to	treatment	The Lecompte procedure and Rastelli repair in the transposition of the great arteries (TGA) with ventricular septal defect (VSD) and left ventricular outflow tract obstruction (LVOTO) provide satisfactory early [results] and late results.	<a href="https://www.semanticscholar.org/paper/Repair-of-transposition-of-the-great-arteries%2C-and-Lee-Lim/4fa74a5fd286acbe764e8e484136da9db0050d22">https://www.semanticscholar.org/paper/Repair-of-transposition-of-the-great-arteries%2C-and-Lee-Lim/4fa74a5fd286acbe764e8e484136da9db0050d22</a>
47	person	obesity-with-metabolic-abnormality	frequently	co-occurs with	knee-osteoarthritis	Obesity when accompanied by metabolic abnormality is closely associated with knee osteoarthritis.	<a href="https://www.semanticscholar.org/paper/Obesity%2C-metabolic-abnormality%2C-and-knee-A-study-in-Lee-Kim/eb8b7a2abef2e75f7b0f59ac3325a795fb672993">https://www.semanticscholar.org/paper/Obesity%2C-metabolic-abnormality%2C-and-knee-A-study-in-Lee-Kim/eb8b7a2abef2e75f7b0f59ac3325a795fb672993</a>
48	student-with-visual-impairments	program-about-oral-hygiene-skills-uses-group-instruction-and-individual-coaching	can generally	increases	oral-hygiene-skill	A program that taught oral hygiene skills to students with visual impairments using group instruction and individual coaching enhances the oral hygiene skills of the participants.	<a href="https://www.semanticscholar.org/paper/Teaching-Oral-Hygiene-Skills-to-Elementary-Students-Shih-Chang/5eb25fd3b6b2e35d8d6784a898f9578365043f0">https://www.semanticscholar.org/paper/Teaching-Oral-Hygiene-Skills-to-Elementary-Students-Shih-Chang/5eb25fd3b6b2e35d8d6784a898f9578365043f0</a>
49	magneto-electro-elastic-cantilever-beam-in-thermal-environment	pyroelectric-effect	generally	increases	electric-potential-observed-at-volume-fraction-of-BaTiO3-0.2	A magneto-electro-elastic cantilever beam under thermal environment has a significant increase in electric potential observed at volume fraction of BaTiO <sub>3</sub> , $v_f = 0.2$ due to pyroelectric effect.	<a href="https://www.semanticscholar.org/paper/Studies-on-magneto-electro-elastic-cantilever-beam-Kondaiah-Shankar/ad844432f09c901fd5af2a3c7ab4fcb4d78aa22d">https://www.semanticscholar.org/paper/Studies-on-magneto-electro-elastic-cantilever-beam-Kondaiah-Shankar/ad844432f09c901fd5af2a3c7ab4fcb4d78aa22d</a>
50	detection-of-holes-with-global-optimization-techniques-and-parameter-identification-techniques	accuracy-of-direct-model-application-to-detect-holes-in-a-plate	mostly not	is same as	accuracy-of-inverse-model-application-to-detect-holes-in-a-plate	The detection of holes in a plate using global optimization [techniques] and parameter identification techniques for the direct model and for the inverse model have comparable results.	<a href="https://www.semanticscholar.org/paper/Detection-of-holes-in-a-plate-using-global-and-Lopes-Jorge/7754cdc703a2e8de29feb1ae690803a651ce0348">https://www.semanticscholar.org/paper/Detection-of-holes-in-a-plate-using-global-and-Lopes-Jorge/7754cdc703a2e8de29feb1ae690803a651ce0348</a>