

## SURAT KEPUTUSAN


Nomor: 237.a/SK/CYS/11/2021

Perihal: Juara LPB Nasional 2021


Mengingat salah satu tujuan dari Lomba Peneliti Belia Nasional 2021 adalah untuk menyeleksi siswa untuk mengikuti lomba penelitian tingkat internasional yang bernama *International Conference of Young Scientist 2022*, *Asia Pacific Conference of Young Scientist 2022*, dan *International Conference of Young Social Scientist 2022*,


Menimbang hasil Lomba Peneliti Belia Nasional 2021 yang telah dilaksanakan oleh Center for Young Scientists pada tanggal 13-21 November 2021,

Memutuskan nama-nama di bawah ini sebagai pemenang Lomba Peneliti Belia Nasional 2021 dan berhak untuk mengikuti Seleksi Tim Indonesia 2022.

Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
Computer Science	Gold Medal in Computer Science	Material Detection Using Light Polarization and Intensity Pattern	Andrew Rinaldy	Deandra Devi Aravinda	Eko Widiatmoko, M.Si.	SMA Santo Aloysius
Computer Science	Silver Medal in Computer Science	OXNOTES: END-TO-END ENCRYPTED NOTE-TAKING WEB APP	Brian	Jason	Bram Yohanes Setiadi, S.Si.	SMAK BPK PENABUR Singgasana Bandung
Computer Science	Bronze Medal in Computer Science	The Development of Students' Expression Recognition Programme (SERP) Based On OpenCV In Evaluating The Effectivity of Online Learning	Jason Raphael Susanto	-	Zamzam Nursani, M.Pd	 SMAK 1 BPK Penabur Bandung


Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
Computer Science	1st Special Award in Computer Science	FazScan: Cross-Platform Software Application as Scanner of Information and Security of Websites	M.Fazri Nizar	-	Sri Lorita, M.Pd	SMA Negeri 4 OKU
Computer Science	2nd Special Award in Computer Science	Square Robots that Look Round : One Motor Swarm Robot with Light Communication Abilities	Yoan Erica	Charlene Shawn	Eko Widiatmoko	SMA Santo Aloysius
Computer Science	2nd Special Award in Computer Science	SSDR (SMART SYSTEM TO DETECT RIPENESS) – Detection Tool of Watermelon Fruit Ripeness with Sound Sensor and Microcontroller Arduino	Kynan Refianta Irwahyudi	Andrew Willfredo Alexander Situmorang	Nur Mohamad Ahadi, S.Si	SMP Garuda Cendekia
Economics	Gold Medal in Economics	Mini Opak Dryer	Diptya Aditya Dhyaksa	Muhammad Rafif Radian	Tri Hastuti, S.Pd.Bio.M.M.Pd	SMP Negeri 1 Wonosobo
Economics	Silver Medal in Economics	Cycling As A Positive Externality During COVID-19 Pandemic	Diana Angela	Fiona Aurelia	Novi Tanaya	Cita Hati West
Economics	Bronze Medal in Economics	The Winning Strategy: An Approach to a Successful Investment during Pandemic	Allison Seteono	-	Kuncoro Kohar	Cita Hati Christian School West
Economics	1st Special Award in Economics	Fight For Survival: The Analysis of The Relationship Between GDP and Unemployment rate in ASEAN Countries	Felicia Nicoline Wu	Jesse Colin Njoto	Kuncoro Kohar	 Cita Hati Christian School West


Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
Economics	2nd Special Award in Economics	Sow Feed Formulation with Probiotic Fermentation to Increase the Productivity of Catfish (Clarias) in the Village of Jasem, Piyungan	Rahadhathul Azelia Setyanto	Mikhailova Ken Paramitha	Isti Handayani, S.Pd	MA Negeri 1 Yogyakarta
Economics	3rd Special Award in Economics	JESSI Entrepreneurs: Healthy Herbal Drinks with Energy to Increase Body's Immunity During a Pandemic	Komang Melly Octaviana	-	I Made Adi Sukariawan, S.Pd	SMA Negeri 3 Denpasar
Environmental Science	Gold Medal in Environmental Science	BIODEGRADABLE: FROM PLASTIC TO CANDY PEN BY CASSAVA	EVAN JOSEPH LILIHATA	-	Yohana Felisita Wisang, M.Si	SMP GenIUS
Environmental Science	Silver Medal in Environmental Science	CUREcumin Mask : Antimicrobial and Sustainable Membrane-Filter Face Masks from Turmeric (Curcuma longa)'s Curcumin	Hillary Gracia	Jolin Limertha	Widodo Suryanto	SMA SPINS Interactional School
Environmental Science	Silver Medal in Environmental Science	Eco Enzyme: Novelty in Bioscouring of Organic Cotton Fabrics	Alexandra Clarissa Suryawijaya	Jennica Aline Purnama	Esli Yunita Sari, S.Si.	SMA Tarakanita Gading Serpong
Environmental Science	Bronze Medal in Environmental Science	Comparative Analysis of Tea made from Rambutan (Nephelium lappaceum L.) Fruit Peel against Commercial Tea	Ayumi Hirata	-	Lovely Garcia Nagum	Cita Hati West Campus
Environmental Science	1st Special Award in Environmental Science	Utilization of Raja Banana Musa paradisiaca L. Peel Extract in Production of Soybean Glycine	Matilda Falov	Raden Roro Francesca Florean Widyaningtyas Suheryanto	Esli Yunita Sari, S.Si.	 SMA Tarakanita Gading Serpong

Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
		max Yoghurt Against Organoleptic				
Environmental Science	2nd Special Award in Environmental Science	BIODEGRADABLE PLASTIC FROM SONNERATIA SP. WITH ADDITIONAL CMC (CARBON METHYLL CELLULOSE) AND CINNAMON OIL AS AN ANTIMICROBIAL	Katya Medina Herlambang	Anjelica Anin Sriwardani	Nur Mohamad Ahadi, S.Si	SMP Garuda Cendekia
Environmental Science	2nd Special Award in Environmental Science	The Utilization Ethanol Extract of Pepper Elder (Peperomia pellucida L. Kunth) in Sheet Mask Formulate for Acne Skin	Patrisia Tanwijaya	Joanna Faleshia	Yuliana Triwahyuni, S.Si.	SMA Tarakanita Citra Raya
Geography	Gold Medal in Geography	Population Movement Patterns After the 2010 Merapi Volcano Eruption Along the Gendol River Upper Stream	Matteo Wiliam Aryanta	-	Thomas Danner Sulisty	SMA Kolese De Britto
Geography	Silver Medal in Geography	The Linkage of Rainfall Rate and the Rise of Covid-19 Cases in East Kotawaringin Regency	Zahra Sabila	Muhammad Raihan Fahmaylunar	Elja Deritaningsih S.Pd.	MAN Kotawaringin Timur
Geography	Bronze Medal in Geography	Analysis of Gas Network Utilization in Prabumulih	Zenitha Zakiah	Firmalia Herliani	Yesi Puji Astuti, M.Pd	SMA Negeri 2 Prabumulih
Geography	Bronze Medal in Geography	SPATIAL ANALYSIS OF MANGROVE LAND CHANGES IN TAHURA NGURAH RAI AREA OF TUBAN VILLAGE, BADUNG REGENCY OF BALI USING GOOGLE EARTH PRO REMOTE SENSING IMAGERY IN 2010-2020	I Made Prana Ari Sanjaya	Ni Kadek Indah Fitriyanti Kusuma Dewi	Puji Eka Setiawati, S.Pd	SMA Negeri 1 Kuta selatan 

Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
History	Gold Medal in History	The Ancient Myth of 'Lintang Kemukus' over The 1910 Bubonic Plague in Java	Tatyana Putri Kuncari	Aurora Kyla Kuspriyono	Intiyani Mei Herawati, S.Ant.	SMA Negeri 6 Yogyakarta
History	Gold Medal in History	The Study of Historiography and Philosophical Values Adhered by the Caretakers of the Royal Cemetery of Imogiri	Evelyne Dyah Pradnya Paramita	-	Nurul Hidayati, S.Pd.	SMP Negeri 5 Yogyakarta
History	Silver Medal in History	Tracing Traces of Tolerance in the Gajah Mada Multi-ethnic Village, Denpasar	Ni Komang Dian Sukma Nantarini	Ni Made Pradnya Naraswari	Ni Made Margiani, SE., S.Pd	SMA Negeri 4 Denpasar
History	Bronze Medal in History	From Intolerance to Acculturation: Inter-ethnic Dynamics and Thematic Village of Lumpia Brondongan Semarang, 1912-2017	Gisela Valeriena Bara	Maria Rosari Yenas	Joseph Army Sadhyoko	SMA Kolese Loyola Semarang
History	Bronze Medal in History	Garuda's Rise to Power: Suryadi Suryadarma and the Struggle of Air Force Division in the Defence of Indonesian Independence 1945-1949	Khirana Marwadika	-	Panji Haryo Purnomo, S.S., M.A.	SMA Pradita Dirgantara
History	Special Award in History	The Effect of Acculturation on the Existence of Gambang Kromong in the New Order Era	Jessie Ellena Hedrian	-	Angga Wijaya M.Si (Han)	SMA Francis School
Life Sciences	Gold Medal in Life Sciences	Initiation of Amylase Based Cancer Detection (ABCD) Method: A Potential Cancer Detector through an Analysis of Streptococcus Bacterium	Grace Abigail Liu	-	Zamzam Nursani, M.Pd	 SMAK 1 BPK Penabur Bandung

Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
Life Sciences	Silver Medal in Life Sciences	The Effect of Salt Stress on the Seed Activation of <i>Leucaena leucocephala</i>	Eugenia Aileen Putrijaya	-	Ir. Maya Devi Kusumadjaja, M.A.	SMA Intan Permata Hati
Life Sciences	Bronze Medal in Life Sciences	Chemical-Calcination of Milkfish ( <i>Chanos chanos</i> ) Fish Scales in the Synthesis of Biogenic Apatite	Billy Gallen Santoso	-	Jethromel Miguel Meneses MAED Scie Ed	Cita Hati West
Life Sciences	1st Special Award in Life Sciences	Study in silico of Afzelin, Luteolin and Apigenin from Dolar Rambat ( <i>Ficus pumila</i> ) as Angiotensin Converting Enzyme (ACE) 2 Inhibitor for SARS-CoV-2	Kimiko Felice Humardnai	Allyson Liem	Pungki Waluyo S.P	SMP Cita Hati Christian School Surabaya
Life Sciences	2nd Special Award in Life Sciences	Effect of Giving Breadnut Peel Extract ( <i>Artocarpus camansi</i> ) Against Mesenchymal Cell Proliferation	Yohanes Michael Mindo	Axel Mahendra Tanuwibowo	M.M. Sudewi Fajarina, S.Si., M.Sc.	SMA Kolese De Britto Yogyakarta
Life Sciences	3rd Special Award in Life Sciences	The Application of Gelam Leaf Extract ( <i>Melaleuca leucadendron</i> Linn.) as Larvicide	Nafira Duhita Sativani	-	Widya Grantina, S.Pd., M.T.	SMA Plus Negeri 1 Palembang
Life Sciences	4th Special Award in Life Sciences	The Effectivity of Sungkai ( <i>Peronema canescens</i> Jack) Leaves Extract on the Blood Glucose Level of the Male Mice ( <i>Mus musculus</i> )	Adisa Naila Lubna	Azka Tsabbita	Atira Elpariska Maya, S.Pd., M.Pd.	SMA Negeri 1 Palembang
Mathematics	Gold Medal in Mathematics	The Power of X: Visual Analysis of Exponentiation and Tetration	Ryan Ethan Yeo	-	Kuncoro Kohar	Cita Hati Christian School West

Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
Mathematics	Silver Medal in Mathematics	Implementation of a Modified Susceptible Infected Recovered (SIR) Model to Determine the Factors Affecting the COVID-19 Pandemic	Davina Nadine Tanaya	Rafael Patrick Suhandinata	Yulian Candra, B.Sc., S.Pd.	SMA Santa Laurensia
Mathematics	Bronze Medal in Mathematics	A Markov Chain Approach in Predicting Stock Market Behaviour	Audrey Kana Kartono	-	Jethromel Miguel Meneses, MAEd Scie Ed	Cita Hati West Campus Surabaya
Mathematics	Special Award in Mathematics	Exploration, Explanation and Proof: An Overview of Maximum Average Speed Formula using Notations, Iterations and Calculus	Gregory Pandji	-	Kuncoro Kohar	Cita Hati Christian School West
Physics	Gold Medal in Physics	High Sensitivity Ping Pong Ball Anemometer Using Electromagnetic Balance	Vania Evangeline Atmajaya	Jennifer Clairine	Eko Widiatmoko, M.Si	SMA Santo Aloysius 1 Bandung
Physics	Silver Medal in Physics	Utilizing Fish Scales as Fine Aggregate in Making Floor Tiles	Ryuu Stanley Tistogondo	-	Jethromel Miguel Meneses, MAEd Scie Ed	Cita Hati West
Physics	Bronze Medal in Physics	Design and testing of water propulsion system with tesla valve.	Devin Nathaniel	Starla Gracelie Karlina	Eko Widiatmoko, M.Si.	SMA Santo Aloysius 2 Bandung
Physics	1st Special Award in Physics	Coconut as a Natural Heat Insulator	Natasya Angelina Pali	-	Shindy Chosisca, S.E., BAF	SMA Swasta Santo Nicholas
Physics	1st Special Award in Physics	Effectivity of Sugarcane Bagasse Fiber - Arabic Gum Composite as Sound Absorber	Josefine Celka Tanujaya	Theresia Cheryl Aureline	Theresia Ang Le Tjien	 SMA Santa Ursula BSD



Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
Physics	2nd Special Award in Physics	IoT-Based Smart-Valve to Increase Farming Efficiency	I Gusti Made Krisna Bakti	-	Deswita Khalid, S.Pd, M.Pd.	SMA Negeri 3 Bogor
Physics	3rd Special Award in Physics	Non-Electrical Peristaltic Pumping System for Counting Objects to Regulate Traffic Signals	Syifa Rahmania Putri	-	Mochamad Harun, S.Pd., M.Pd.	SMA Negeri 16 Surabaya
Psychology	Gold Medal in Psychology	Adolescents' Journey towards Self Actualization: A Study on High School Students' Online and Offline Identity in Surabaya	Ayunda Damai Fatmarani	-	Nerinda Rizky Firdaus, M.Si	SMA Cikal Surabaya
Psychology	Silver Medal in Psychology	The Most Effective Online Learning Method for High School Students during the Era of Covid-19 Pandemic	Angelina Wandana	Janicecilia Saputri Gunawan	F. Pristi Andika, S.Psi., M.A.	SMA Cita Hati Christian School
Psychology	Silver Medal in Psychology	The Role of RiCi for People with Down Syndrome	Cahyani Hikmah Wifaqi	Zahra Ayu Ramadhani	Tri Hastuti	SMP Negeri 1 Wonosobo
Psychology	Bronze Medal in Psychology	The Relationship Between Stress Towards Self-Efficacy in Adolescents Watching Korean Dramas	Aliyah Nur Dafika	Nabilah Basyasyah	Exzan Abdi Fariz, S. Psi	SMA Negeri 1 Palembang
Psychology	1st Special Award in Psychology	Media Representation: Romanticizing Mental Illnesses and The Influences It Has On Adolescents	Monique Aurelia	Jasminne Audrey Djaya	Dra. Margaretha Maria Rosyati	SMA Santa Laurensia 
Psychology	2nd Special Award in Psychology	Digital Pressure: Social Media Expectation on Suicidal Behaviour Among Teenagers	Ryan Joseph Lim	-	Kuncoro Kohar	Cita Hati Christian School West

Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
Psychology	3rd Special Award in Psychology	The Level of Overthinking in Grade 12 Students of Tarakanita High School Gading Serpong during the Pandemic	Cheryn Edrea	Emily Abrina Wisnumurti	Cicilia Novia Andriani, S.Pd.	SMA Tarakanita Gading Serpong
Sociology	Gold Medal in Sociology	The Impact of Proactive and Adaptive Behaviour Toward Changes on Students Academic Understanding During Online Learning Mediated by Peer Interaction	Clarissa Aurelia Leowinata	-	Diana Elok Kristanti	SMA Cita Hati Christian School
Sociology	Silver Medal in Sociology	THE NOCEBO EFFECT OF THE COVID-19 VACCINE ON FEMALE VS MALE IN SURABAYA	Keichia Marvelle Bani	Valeria Guadalupe Setijo Gonzalez	Karila Wisudayanti	SMP Cita Hati Christian School, Surabaya
Sociology	Bronze Medal in Sociology	The Impact of Skin Whitening Product Advertisements on Social Media Platforms Tiktok and Instagram towards Young Middle Class Indonesian Female Teenagers' Views on Beauty Standards	Alicia Viola Lesmana	Manuela Sharissa Revely Sianipar	Johanes Paulus Wilibrodus Bhara Watu	SMA Santa Laurensia
Sociology	1st Special Award in Sociology	The Phenomenon of Anonymity on Social Media in Relation to the Level of Social Integration of Teenage Groups	Enrico Reynard Winoto	-	Zamzam Nursani, M. Pd	SMAK 1 BPK Penabur Bandung
Sociology	2nd Special Award in Sociology	The Intensity of Accessing Korean Celebrity Fanbase Accounts Affects Teenagers' Fanaticism	Lutfia Syabitha Mirza	Izzah Imani	Ade Dewi Trisna Hartika	SMA NEGERI 1 PALEMBANG

Bidang	Penghargaan	Judul Penelitian	Nama peneliti 1	Nama peneliti 2	Guru pembimbing	Sekolah
Sociology	3rd Special Award in Sociology	The Impact of Make-up Usage o Self-Acceptance in Adolescent Girls	Livia Rossayyasy	Aurellia Hayatunisa	Ade Dewi Trisna Hartika, S.Pd	SMAN 1 Palembang

Apabila di kemudian hari terdapat kesalahan pada Surat Keputusan ini, maka akan diperbaiki sesuai dengan ketentuan yang berlaku.  
Demikian Surat Keputusan dibuat untuk digunakan sebagaimana mestinya.

Denpasar, 30 November 2021



**Monika Raharti, Ph.D.**  
Direktur CYS