

### LIST OF RESEARCH TITLE OF SOIL SCIENCE LECTURER

| FUNDED IN THE 2015 BUDGET YEAR |                                                                            |                                                                                                                                           |                                                           |             |          |
|--------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------|----------|
|                                |                                                                            |                                                                                                                                           |                                                           |             |          |
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| NO                             | NAME OF THE CHIEF EXECUTOR                                                 | TITLE                                                                                                                                     | SKEMA                                                     | FUND        | STATUS   |
| 1                              | Dr. Ir. DARMAWAN Dr. Fadjar Geombira,ST,MSc<br>Prof.Dr. Tsugiyuki Masunaga | Combating Soil Organic Matter Deterioration on Intensive Paddy Field through Carbon Fertilizer Application in West Sumatra, Indonesia     | External CooperationCountry and Publication International | 182.500.000 | Advanced |
| 2                              | Prof.Dr.Ir. HERMANSAH<br>Prof.Dr.Ir. Auzar Sarif,MS                        | OPTIMIZATION OF THE USE OF PALM FACTORY LIQUID WASTE TO INCREASE QUALITY AND PRODUCTIVITY OF SUSTAINABLE DEGRADED SOIL                    | MP3EI                                                     | 165.000.000 | new      |
| 3                              | Prof.Dr. Hermansyah                                                        | Optimizing the Use of Local Organic Materials (BOL) to Improve the Quality of Super Wet Tropical Soil in Indonesia                        | lptek                                                     | 130.000.000 |          |
| 4                              | Dr. Ir. Nalwida Rozen,MP<br>Dr.Ir. Gusnidar,MP                             | Requirements for Micro Elements of Rice Plants in Rice Fields<br>Intensification Given Titonia Plus Organic Fertilizer                    | Study Strategic National                                  | 94.000.000  | Advanced |
| 5                              | Dr. TEGUH BUDI PRASETYO<br>Dr. P.K Dewi Hayati Ir. Sutoyo,MS               | Advanced Yield Testing of Acid Soil Tolerant Corn Hybrids to Increase Corn Production Overall Sustainability in Replanting Palm Oil Lands | Study Superior College Tall                               | 72.500.000  | new      |
| 6                              | Dr. Ir. SYAFRIMEN YASIN, MS,MSc<br>Dr.Ir. Agustian Irwan Darfis,SP,MP      | Utilization of KOGATI Fertilizer as a Substitute for Artificial Fertilizer to Improve Volcanic Ash Soil Fertility                         | Study Superior College Tall                               | 115.000.000 | new      |
| 7                              | Prof. Dr.Ir. DIAN FIANtis,                                                 | POTENTIAL AND EXPLORATION OF                                                                                                              | Study Superior College                                    | 135.000.000 | new      |

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|    | M.Si Dr.Ir Yulnafatmawita<br>Dr. Ir. Gusnidar,MP Ir.<br>Nelson,M.Sc                                 | PYROCLASTIC MATERIAL AND ITS<br>INTERACTION WITH ORGANIC WASTE:<br>EFFORT TO USE AND RECOVERY<br>AGRICULTURAL LAND AND PEOPLE'S<br>ECONOMY POST THE VOLCANO ERUPTION | Tall                           |                      |     |
| 8  | Dr. ADRINAL MS Dr.<br>Gusmini,SP,MP Prof.Dr.Ir.<br>Budjang Rusman,MS<br>Prof.Dr. Tsugiyuki Masunaga | EFFORTS TO INCREASE TRADITIONAL<br>INTENSIVE RICE PRODUCTION THROUGH THE<br>PROVISION OF BIOCHAR HUSK IN TANJUNG<br>BETUNG VILLAGE, PASAMAN DISTRICT                 | Study Superior College<br>Tall | 92.500.000           | new |
| 9  | Dr.Ir.Agustian<br>Dr.Ir.Syafrimen Yasin, M.Sc                                                       | Study of Rhizodegradation of<br>Organophosphate Agrochemical residues in<br>Soils with Intensive Land Management                                                     | S2/S3                          | 50.000.000           | new |
| 10 | Ir.Lusi Maira, M.Sc Diah Eka<br>Pramita Sari                                                        | Increased Productivity of Ultisol Planted with<br>Corn (Zea Mays) Light Coal Powder<br>(Subbituminus) and Bamboo Clump Mol                                           | Young Lecturer                 | 12.500.000           |     |
|    | <b>AMOUNT</b>                                                                                       |                                                                                                                                                                      |                                | <b>1.049.000.000</b> |     |

| FUNDED IN THE 2016 BUDGET YEAR |                                                                          |                                                                                                                                                                                             |                                                             |             |          |
|--------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------|----------|
| NO                             | Name                                                                     | Title                                                                                                                                                                                       | Skim                                                        | FUND        | Status   |
| 1                              | DARMAWAN Dr. Fadjar Goembira,<br>ST. MSc Prof. Dr. Tsugiyuki<br>Masunaga | Combating Soil Organic Matter Deterioration<br>on Intensive Paddy Field through Carbon<br>Fertilizer Application in West Sumatra,<br>Indonesia                                              | Foreign<br>Cooperation and<br>International<br>Publications | 160.000.000 | Advanced |
| 2                              | TEGUH BUDI PRASETYO DR. P.K.<br>DEWI HAYATI IR. SUTOYO, MS               | Advanced Yield Testing of Acid Soil Tolerant<br>Corn Hybrids for Sustainable Increase of Corn<br>Production on Replanted Oil Palm Lands                                                     | Leading Higher<br>Education<br>Research                     | 75.000.000  | Advanced |
| 3                              | SYAFRIMEN YASIN Dr.Ir. Agustian<br>Irwan Darfis, SP, MP                  | Utilization of KOGATI Fertilizer as a Substitute<br>for Artificial Fertilizer to Improve Volcanic Ash<br>Soil Fertility and Production of Wheat<br>(Triticum aestivum L.) in Alahan Panjang | Leading Higher<br>Education<br>Research                     | 130.000.000 | Advanced |

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| 4  | ADRINAL Dr. Gusmini, SP, MP Prof.<br>Dr. Ir. Budjang Rusman, MS Prof.<br>Dr. Tsugiyuki Masunaga | EFFORTS TO INCREASE TRADITIONAL<br>INTENSIVE RICE PRODUCTION THROUGH THE<br>PROVISION OF BIOCHAR HUSK IN TANJUNG<br>BETUNG VILLAGE, PASAMAN DISTRICT                                                 | Leading Higher<br>Education<br>Research | 150.000.000 | Advanced |
| 5  | DIAN FIANTIS Dr. Ir.<br>Yulnafatmawita Dr. Ir. Gusnidar,<br>MP Ir. Nelson, M.Sc                 | POTENTIAL AND EXPLORATION OF<br>PYROCLASTIC MATERIALS AND ITS<br>INTERACTION WITH ORGANIC WASTE:<br>EFFORTS TO USE AND RECOVERY<br>AGRICULTURAL LAND AND PEOPLE'S<br>ECONOMY POST A VOLCANO ERUPTION | Leading Higher<br>Education<br>Research | 195.175.000 | Advanced |
| 6  | HERMANSAH Dr.Juniarti , SP,MP<br>Aries Kusumawati SP, Msi                                       | Optimizing the Use of Local Organic Materials<br>(BOL) to Improve the Quality of Super Wet<br>Tropical Soil in Indonesia.                                                                            | Ipteks                                  | 125.000.000 | Advanced |
| 7  | HERMANSAH Prof.Dr. Ir. Auzar<br>Sarif, MS Prof. Fatchiyah PhD                                   | OPTIMALISASI PEMANFAATAN LIMBAH CAIR<br>PABRIK KELAPA SAWIT UNTUK<br>MENINGKATKAN KUALITAS DAN<br>PRODUKTIVITAS TANAH TERDEGRADASI<br>SECARA BERKELANJUTAN                                           | MP3EI                                   | 150.000.000 | Advanced |
| 8  | Prof.Dr. Hermansyah                                                                             | Optimization of Indigeneous Bacterial Isolates<br>as Bioherbicides and their Benefits in<br>suppressing weed growth rates and improving<br>the quality of Soil and Coffee on Plantations             | PMDSU                                   | 52.400.000  | New      |
| 9  | Prof.Dr. Hermansyah                                                                             | Study of the Balance of Soil Nutrients Due to<br>Changes in Forest Land Use to Oil Palm on Soil<br>Quality in the Batang Merangin Sub-<br>Watershed                                                  | PMDSU                                   | 59.000.000  | New      |
| 10 | NALWIDA ROZEN Dr. Ir. Gusnidar,<br>MP                                                           | Micro Element Requirements for Rice Plants<br>in Intensified Rice Fields Given Titonia Plus<br>Organic Fertilizer                                                                                    | National Strategic<br>Research          | 85.000.000  | Advanced |
| 11 | Prof. Dr. Ir.<br>YULNAFATMAWITA.M.Sc Dr. Ir.                                                    | Changes in the physico-chemical properties of<br>soil and productivity of rice fields in                                                                                                             | Professor's<br>Research                 | 110.000.000 |          |

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|    | Syafrimen Yasin, MS, MSc, Ir. Lusi Maira, M. Agr.Sc                                                           | Dharmasraya due to the use of polluted irrigation water and its management                                                                                                            |                      |                      |  |
| 12 | Prof. Dr.Ir. BUJANG RUSMAN.MS<br>Dr. Ir. Agustian, MSc, Dr.Ir. Aprisal, Msi                                   | Study of land degradation on smallholder oil palm plantations and land management efforts by applying biochar                                                                         | Professor's Research | 110.000.000          |  |
| 13 | Prof. Dr. Ir. HERVIYANTI.MS Dr. Ir. Teguh Budi Prasetyo, MS, Dr. Ir. Juniarti, MP                             | Activation of coal powder is not productive in increasing the productivity of acid mineral soil for oil palm plants                                                                   | Professor's Research | 110.000.000          |  |
| 14 | Prof. Dr. Ir. DIAN FIANTIS, M.Sc Dr. Ir. Gusnidar, MP                                                         | Pedogenesis, information systems and mapping of agro-ecological zones of paddy fields in volcanic land in West Sumatra                                                                | Professor's Research | 110.000.000          |  |
| 15 | Prof. Dr. Ir. AMRIZAL SAIDI, MS Dr. Ir. Adrinal, MSc, Dr. Juniarti, SP, MP                                    | Study of efforts to reduce landslide hazards using biotechnical engineering on landslide-prone soil made from pumice in Partamuan sub-district, Padang Pariaman Regency, West Sumatra | Professor's Research | 110.000.000          |  |
| 16 | Prof. Dr. Ir. ETI FARDA HUSIN, MS<br>Ir. Syahyana Raesi, MSc, Ir. Zelfi Zakir, Msi, Ir. Oktanis Emalinda, MP. | Reclamation of former coal mining land through the use of arbuscular mycorrhizal fungi in corn, cocoa and agarwood plants using an intercropping system                               | Professor's Research | 110.000.000          |  |
| 17 | Prof. Dr. WARNITA.MP Dr. Yulmira Yanti, Ssi., MP Dr. Juniarti, SP., MP                                        | Optimizing the use of indigenous rhizobacteria and growth regulators for growth, yield and disease resistance of potato plants                                                        | Riset Guru Besar     | 110.000.000          |  |
| 18 | Prof. Dr. Ir. AZWAR RASYIDIN, MSC<br>Dr. Ir. Gusmini, MP , Dr. Ir. Yuniarti, MP                               | Evaluation of soil genesis in the hilly and volcanic physiography on the eastern slopes of Mount Marapi                                                                               | Riset Guru Besar     | 110.000.000          |  |
| 19 | Dr.Ir.Agustian Dr.Ir.Syafrimen Yasin,M.Sc                                                                     | In Situ Study of Biodegradation of Organophosphate Agrochemical Residues in Herbicide Contaminated Soil                                                                               | S2/S3                | 50.000.000           |  |
|    | <b>AMOUNT</b>                                                                                                 |                                                                                                                                                                                       |                      | <b>2.111.575.000</b> |  |

| FUNDED IN THE 2017 BUDGET YEAR |                                                                                                   |                                                                                                                                                                                |                                   |             |          |
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| NO                             | Name                                                                                              | Title                                                                                                                                                                          | Skim                              | FUND        | Status   |
| 1                              | JUNIARTI Dr. Eka Chandralina, SP.Msi Dr. Yusniwati, SP.MP                                         | DEVELOPMENT OF SORGUM (SORGHUM BICHOLOR L.) ON SUB OPTIMAL LAND IN AN EFFORT TO INCREASE FOOD RESILIENCE AND SECURITY AND FARMERS' INCOME                                      | Stranas                           | 85.000.000  | New      |
| 2                              | HERMANSAH Prof.Dr. Ir. Auzar Sarif, MS Prof.Dr.Erizal Mukhtar                                     | OPTIMIZATION OF THE USE OF PALM FACTORY LIQUID WASTE TO SUSTAINALLY IMPROVE THE QUALITY AND PRODUCTIVITY OF DEGRADED SOIL                                                      | MP3EI                             | 168.000.000 | Advanced |
| 3                              | AZWAR RASYIDIN Dr.Ir.Juniarti M.P Ir. Fajri, M.P                                                  | Evaluation of Rice Fields in Different Physiography                                                                                                                            | Leading Higher Education Research | 120.000.000 | New      |
| 4                              | HERMANSAH DR. Ir. AGUSTIAN DR. Ir. SYAFRIMEN YASIN, MS. M.Sc FENKY MARSANDI                       | STUDY OF THE BALANCE OF SOIL NUTRIENTS DUE TO THE CHANGE IN USE OF FOREST TO OIL PALM ON SOIL QUALITY IN THE BATANG MERANGIN SUB WATERSHED                                     | PMDSU                             | 60.000.000  | Advanced |
| 5                              | PROF. DR. IR. HERMANSAH, MS, M.SCPROF. DR. IR. BUJANG RUSMAN, MS DR. RER.NAT. IR. SYAFRIMEN YASIN | OPTIMIZATION OF INDIGENEOUS BACTERIA ISOLATES AS BIOHERBICIDES AND THEIR BENEFITS IN REDUCING WEED GROWTH RATE AND IMPROVING SOIL AND COFFEE QUALITY ON PAGAR ALAM PLANTATIONS | PMDSU                             | 60.000.000  | Advanced |
| 6                              | Prof. Dr. Ir. Eti Farda Husin, MS Dr.Armaini Melysa Putri                                         | Development of Microalgae as a source of bioactive compounds for medicinal raw materials                                                                                       | MGB (BOPTN) Unand                 | 110.000.000 | Advanced |
| 7                              | Prof.Dr. Ir. Dian Fiantis Dr. Ir. Gusnidar, MP Mimien Hariyanti, SP.,MP                           | Pedogenesis, Information System and Mapping of Agro Ecological Zones of Rice Fields in Volcanic Lands of West Sumatra                                                          | MGB                               | 110.000.000 | Advanced |
| 8                              | Prof. Dr. Ir. Herviyanti, .MS Dr. Ir. Teguh Budi Prasetyo, MS, Dr. Ir.                            | Activation of coal powder is not productive in increasing the productivity of acid mineral soil for oil                                                                        | MGB                               | 110.000.000 | Advanced |

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|   | Juniarti, MP.                       | palm plants                                                                                                                                                       |                  |                    |  |
| 9 | Benni Satria Netti Herawati Aprisal | Utilization of Arbuscular Mycorrhizal Fungi (AMF) Doses on the Growth of Three Agarwood Genotypes (Aquilaria spp L.) Ready for Distribution and Field Application | Applied Research | 30.000.000         |  |
|   | <b>AMOUNT</b>                       |                                                                                                                                                                   |                  | <b>853.000.000</b> |  |

| FUNDED IN THE 2018 BUDGET YEAR |                                                                                      |                                                                                                                                                                                |       |             |          |
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| NO.                            | RESEARCHER'S NAME                                                                    | TITLE                                                                                                                                                                          | SKIM  | FUND        | STATUS   |
| 1                              | AGUSTIAN Dr. Ir. Syafrimen Yasin, M.Sc.                                              | ISOLATION AND CHARACTERIZATION OF ENDOPHYTE BACTERIA FOR THE GROWTH AND PRODUCTION OF HORTICULTURE CROPS ON ACID SOILS                                                         | PBK   | 87.500.000  | 1st Year |
| 2                              | DIAN FIANTIS Dr. Ir. Gusnidar, MP Ir. Nelson, M.Sc                                   | Tracking the Impact of the Eruption of Mt. Maninjau 52 ky Geopedometrically and Comparison with the Latest Mt. Marapi Eruption Material 14 June 2017                           | PBK   | 120.000.000 | 1st Year |
| 3                              | HERMANSAH Dr. Ir. Agustian Dr. Ir. Syafrimen Yasin, MS, M.Sc                         | STUDY OF BALANCE OF SOIL NUTRIENTS DUE TO CHANGE IN USE OF FOREST TO OIL PALM ON SOIL QUALITY IN THE BATANG MERANGIN SUB WATERSHED                                             | PMDSU | 60.000.000  | advanced |
| 4                              | HERMANSAH PROF. DR. IR. BUJANG RUSMAN, MS DR. RER.NAT. IR. SYAFRIMEN YASIN, MS, M.SC | OPTIMIZATION OF INDIGENEOUS BACTERIA ISOLATES AS BIOHERBICIDES AND THEIR BENEFITS IN REDUCING WEED GROWTH RATE AND IMPROVING SOIL AND COFFEE QUALITY ON PAGAR ALAM PLANTATIONS | PMDSU | 60.000.000  | advanced |
| 5                              | JUNIARTI Dr. Yusniwati, SP.MP Prof. Dr.Ir. Asdi Agustar, MSc                         | DEVELOPMENT OF SORGUM (SORGHUM BICHOLOR L.) ON SUB OPTIMAL LAND IN AN EFFORT TO INCREASE FOOD RESILIENCE AND SECURITY AND FARMERS' INCOME<br />                                | PSNI  | 125.000.000 | advanced |
| 6                              | AZWAR RASYIDIN Dr.Ir.Juniarti M.P Ir. Fajri, M.P                                     | Evaluation of Rice Fields in Different Physiography                                                                                                                            | PTUPT | 100.000.000 | advanced |
| 7                              | Prof. Bujang Rusman Agustian                                                         | Study of Land Degradation of People's Palm Oil Plantations                                                                                                                     | HGB   | 110.000.000 | 2nd year |

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|----|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------|----------|
|    | Aprisal                                                       | and Land Management Efforts by Providing Biochar                                                                                                                                   |          |                      |          |
| 8  | Prof. Herviyanti Teguh Budi Prasetyo Juniarti Mimien Harianti | Activation of coal powder is not productive in increasing the productivity of acid mineral soil for oil palm plants                                                                | HGB      | 110.000.000          | 3rd year |
| 9  | Agustian Juniarti Mimien Harianti                             | Study of Soil Biochemical Characteristics as an Indicator of Sustainable Land Management                                                                                           | PGB      | 107.500.000          | 1st Year |
| 10 | Adrinal Gusmini, Dewi Rezki                                   | SOIL PROCESSING AND AMELIORATION TECHNOLOGY FOR IMPROVING THE PHYSICO-CHEMICAL PROPERTIES OF HIGH SAND CONTENT SOILS IN CORN CULTIVATION                                           | PGB      | 107.000.000          | 1st Year |
| 11 | Gusnidar Lusi Maira, Yulna Fatmawita                          | Compost from Rice Straw and Titonia to Improve the Chemical Properties of Regosol and Increase Shallot Production.                                                                 | PGB      | 105.000.000          | 1st Year |
| 12 | Aprisal                                                       | Study of the Soil Quality Index for Land Management Directions in the Horticultural Production Center Area in the Upper Sumani River Basin                                         | PGB      | 95.000.000           | 1st Year |
| 13 | Syafrimen Yasin                                               | Utilization of Compost Plus Biochar Fertilizer as a Substitute for Synthetic Fertilizer to Improve Soil Fertility and Growth of Coffee Plants (Coffea Arabica L) in Alahan Panjang | PGB      | 90.000.000           | 1st Year |
| 14 | Mimien Harianti Herviyanti Teguh Budi Prasetyo Dewi Rezki     | Adsorption of Paraquat with Unproductive Coal Powder (Subbituminus) on Inceptisol in Koto Baru, X Koto District, Tanah Datar Regency                                               | RD Boptn | 30.000.000           | 1st Year |
|    | <b>Amount</b>                                                 |                                                                                                                                                                                    |          | <b>1.307.000.000</b> |          |

| FUNDED IN THE 2019 BUDGET YEAR |                   |                                                                             |                          |            |
|--------------------------------|-------------------|-----------------------------------------------------------------------------|--------------------------|------------|
| NO.                            | RESEARCHER'S NAME | RESEARCH TITLE                                                              | SKIM                     | FUND       |
| 1                              | DIAN FIANTIS      | Potential and Engineering for Using Volcanic Ash as Geopolymer Raw Material | MASTER'S THESIS RESEARCH | 60.000.000 |

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| 2 | AGUSTIAN                                                 | ISOLATION AND CHARACTERIZATION OF ENDOPHYTE BACTERIA FOR THE GROWTH AND PRODUCTION OF HORTICULTURE CROPS ON SOUR SOIL                                                                          | BASIC RESEARCH   | 79.056.000  |
| 3 | GUSMINI                                                  | INCREASING THE PRODUCTIVITY OF SUB-OPTIMAL LAND FOR EX-GOLD MINING BY PROVIDING CLAY, RICE HUSB BIOCHAR AND ORGANIC INGREDIENTS IN LOCAL RICE CULTIVATION IN DHARMASRAYA DISTRICT WEST SUMATRA | BASIC RESEARCH   | 87.205.000  |
| 4 | YULNAFATMAWITA Syafrimen Yasin, ZAINAL ABDUL HARIS S     | DYNAMICS OF ORGANIC MATERIAL STOCK AND PHYSICO-CHEMICAL PROPERTIES OF SOIL DUE TO THE CONVERSION OF FOREST FUNCTIONS INTO TEA GARDENINGS IN SOLOK DISTRICT, WEST SUMATRA                       | BASIC RESEARCH   | 91.621.000  |
| 5 | DIAN FIANTIS, Dr. Ir GUSNIDAR, Prof. Dr. Dudiman Minasny | Spatial distribution of volcanic soil and peat carbon stocks in West Sumatra and their relationship with climate change                                                                        | BASIC RESEARCH   | 85.905.000  |
| 6 | DIAN FIANTIS                                             | Tracking the Impact of the Eruption of Mt. Maninjau 52 ky Geopedometrically and Comparison with Eruption Materials G. Marapi Latest 14 June 2017                                               | BASIC RESEARCH   | 107.935.000 |
| 7 | JUNIARTI                                                 | DEVELOPMENT OF SORGUM (SORGHUM BICHOLOR L.) ON SUB OPTIMAL LAND IN AN EFFORT TO INCREASE FOOD RESILIENCE AND SECURITY AND FARMERS' INCOME<br />                                                | APPLIED RESEARCH | 146.900.000 |
| 8 | yulnafatmawita, syafrimen Yasin,Lusi maira               | Changes in Soil Physico-Chemical Properties and Rice Field Productivity in Dharmasraya Due to the Use of Polluted Irrigation Water and Its Management                                          | GB BOPTN         | 85.000.000  |
| 9 | Bujang Rusman Agustian, Aprisal                          | Study of Land Degradation of People's Palm Oil                                                                                                                                                 | GB BOPTN         | 85.000.000  |



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|    |                                    | Plantations and Land Management Efforts by Providing Biochar                                               |                |                    |
| 10 | Sandra Prima, Herviyanti, Zuldadan | APPLICATION OF GLYPOSATE HERBICIDE WITH COCONUT FIBER BIOCHAR ON INCEPTISOL KOTO BARU, DISTRICT. FLAT LAND | BASIC RESEARCH | 30.000.000         |
| 11 | Juniarti, Yusniwati, Asdi Agustar  | DEVELOPMENT OF SORGUM (SORGHUM BICHOLOR L.) ON PEATLAND IN WEST SUMATRA                                    | RD             | 30.000.000         |
|    | <b>AMOUNT</b>                      |                                                                                                            |                | <b>888.622.000</b> |

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| <b>FUNDED IN THE 2020 BUDGET YEAR</b> |  |  |  |  |  |  |
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| NO. | RESEARCHER'S NAME | RESEARCH TITLE                                                                                                                                                                                                                            | SKIM                     | FUND       | RESEARCH DURATION (Years)DURATION | PROPOSED STATUS |
|-----|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|-----------------------------------|-----------------|
| 1   | DIAN FIANTIS      | Digital mapping of the distribution of volcanic ash from the eruption of Mount Sinabung from 2013 - 2019: Determination of volcanic ash nutrient reserves, vegetation and geopedometric index values in areas prone to volcanic disasters | Master's Thesis Research | 39.850.000 | One (1)                           | New             |
| 2   | JUNIARTI          | LAND CLASSIFICATION STUDY IN NAGARI                                                                                                                                                                                                       | Master's Thesis Research | 32.245.000 | One (1)                           | New             |

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|   |                                                                                     | SUNGAI<br>KAMUYANG LUAK<br>DISTRICT FIFTY<br>CITY DISTRICT                                                                                                                                      |                    |                    |                 |     |
| 3 | JUNIARTI                                                                            | SUB OPTIMAL<br>LAND USE FOR<br>DEVELOPMENT<br>OF SORGHUM<br>(Sorghum bicholor<br>L.) BUSINESS<br>UNITS IN WEST<br>SUMATRA                                                                       | Development        | 417.965.000        | Multi YEARS (3) | New |
| 4 | Dr. Ir TEGUH BUDI PRASETYO<br>Prof Ir HERVIYANTI<br>ZULDADAN NASPENDRA S.P,<br>M.Si | POTENTIAL OF<br>BAMBOO<br>BIOCHAR AND<br>SUB-BITUMINOUS<br>COAL AS ACID<br>MINERAL SOIL<br>AMENDMENT TO<br>SUPPORT THE<br>GROWTH OF<br>ARABIKA COFFEE<br>PLANT SEEDLINGS<br>(Coffea Arabica L.) | TERPAN<br>RESEARCH | 26.500.000         | One (1)         | New |
|   | <b>AMOUNT</b>                                                                       |                                                                                                                                                                                                 |                    | <b>516.560.000</b> |                 |     |
|   |                                                                                     |                                                                                                                                                                                                 |                    |                    |                 |     |

| FUNDED IN THE 2021 BUDGET YEAR |                                                                                                               |                                 |                                                                                                                                                                             |             |
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| NO.                            | RESEARCHER'S NAME                                                                                             | SKIM                            | RESEARCH TITLE                                                                                                                                                              | FUND        |
| 1                              | JUNIARTI                                                                                                      | DEVELOPMENT RESEARCH            | Sub-Optimal Land Utilization for the Development of Sorghum (Sorghum Bicholor L.) Business Units as Food and Feed Supplement Providers in Facing Covid-19 in West Sumatra   | 441.665.000 |
| 2                              | Prof.Dr.Ir. Herviyanti, MS Dr. Ir TEGUH BUDI PRASETYO Ir SANDRA PRIMA M.Sc., Ph.D,Dr MIMIEN HARIANTI S.P, M.P | PROFESSOR                       | SUB-BITUMINOUS FORMULATION WITH RICE HUSK BIOCHAR IN OVERCOMING THE EFFECTS OF PESTICIDE RESIDUES ON INCEPTISOL FOR HORTICULTURAL CROPS                                     | 110.000.000 |
| 3                              | Dr. Ir. Aprisal, MP, Dr MIMIEN HARIANTI S.P, M.P, Ir IRWAN DARFIS, Prof. Dr BAMBANG ISTIJONO S.S.T, M.Eng     | PROFESSOR                       | Soil Quality Index Analysis to Support Potato Crop Productivity in the Upper Lembang Sub-Watershed                                                                          | 110.000.000 |
| 4                              | Dr. Juniarti, SP. MP'Dr. Yusniwati, SP.MP Prof. Dr. Ir. Asdi Agustar, M.Sc Afrima Sari, SP. MP                | REPUTABLE RESEARCH PUBLICATIONS | Utilization of Coastal Land for the Development of Sorghum and Seaweed to Increase Farmers' Income in West Sumatra                                                          | 46.000.000  |
| 5                              | Dr. Ir. TEGUH BUDI PRASETYO, M.S, Prof. Dr. Ir. HERVIYANTI, M.S                                               | APPLIED RESEARCH                | In Situ Inactivation Technique for Mercury Pollution in Ex-Gold Mining Soil in Dharmasarya Regency Through Amelioration for Sweet Corn Cultivation (Zea Mays L. Saccharata) | 28.900.000  |
| 6                              | Dr. Ir GUSTIAN, MS,                                                                                           | BASIC RESEARCH                  | Strengthening the Somatic                                                                                                                                                   | 28.700.000  |

|   |                                                                                                                                          |                                     |                                                                                                                                                                                                                   |                    |
|---|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|   | Prof.Dr.Ir. Auzar Syarif,<br>MS Dr Ir YAHERWANDI,<br>RYAN BUDI SETIAWAN<br>S.P, <a href="#">M.Si</a> , Ayu Lestari ,<br>Husnul Fitri     |                                     | Embryogenesis Protocol to Support In<br>Vitro Mutations in Soybean Plants<br>(Glycine Max L.) Tolerating Drought<br>Stress                                                                                        |                    |
| 7 | Dr. MIMIEN HARIANTI<br>S.P, M.P, Dr.Ir. Teguh<br>Budi Prasetyo, MS, Ir<br>JUNAIDI M.P, Dewi<br>Syahputri Batara,<br>Anggun Fitriya Yenad | BASIC RESEARCH                      | Changes in Physicochemical<br>Characteristics of Peat and Enzyme<br>Activity on Land that Has Been<br>Converted from Oil Palm Plantations to<br>Corn Plantations in Kinali, West Pasaman<br>Regency, West Sumatra | 26.900.000         |
| 8 | ZULDADAN<br>NASPENDRA S.P, M.S<br>Dr. Ir ADRINAL, Ir<br>JUNAIDI M.P, NOFRITA<br>SANDI S.P, M.P Nurul<br>Hijri, Fiqri qalbi               | Beginner Lecturer<br>Research (RDP) | Digitization of Spatial Data on Soil<br>Characteristics for West Sumatra<br>Agricultural Development Plans                                                                                                        | 20.000.000         |
|   | <b>AMOUNT</b>                                                                                                                            |                                     |                                                                                                                                                                                                                   | <b>812.165.000</b> |

#### FUNDED IN THE 2022 BUDGET YEAR

| NO. | RESEARCHER'S NAME                                                  | RESEARCH TITLE                                                                                                                                                                      | SKIM                          | FUND        |
|-----|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|
| 1   | HERVIYANTI                                                         | Application of Amelioration and<br>Biopesticide Technology Based on<br>Local Resources for Certified Healthy<br>Vegetable Farming Businesses in<br>Banuhampu District, Agam Regency | PTKN                          | 168.300.000 |
| 2   | Dr.Ir. Teguh Budi Prasetyo, MS,<br>Prof.Dr.Ir. Herviyanti, MS, Dr. | Amelioration Technology Based on<br>Sub-Bituminous Coal and Young                                                                                                                   | GREAT TEACHER<br>ACCELERATION | 100.000.000 |

|   |                                                                        |                                                                                                                                                                                |                                    |            |
|---|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------|
|   | Mimien Harianti, SP. MP Dr.Ir.<br>Sandra Prima, MSc                    | Coconut Waste Biochar on Mercury-Contaminated Ex-Gold Mining Soil in Dharmastraya Regency                                                                                      |                                    |            |
| 3 | Ir. Irwan Darfis, MP, Prof. Dr. Ir. Herviyanti, MS, Ir. Boyon, M.P     | The Ability of Sub-Bituminous Formulation and Young Coconut Waste Biochar in Overcoming Herbicide Residues in Inceptisol in the Horticulture Production Center of Agam Regency | BASIC RESEARCH                     | 30.000.000 |
| 4 | Dr. Gusmini, S.P, M.P, Dr. Ir. Adrinal, MS, Dr. Yusniwati, S.P, M.P    | The Effect of Hydro-Biocanate Formulation on the Production of Pakcoy (Brassica Rapa L.) Plants Using a Hydroponic System                                                      | Basic Research (RD)                | 30.000.000 |
| 5 | Nofrita Sandi, SP. MP, Zuldadan Naspendra, SP. MsiDr. Juniarti, SP. MP | Study of land conversion from plantation crops to food crops using the slash and burn system in Sijunjung Regency                                                              | Beginner Lecturer Research (RDP)   | 20.000.000 |
| 6 | Afrima Sari, SP, M.P, Dr. Dini Hervani, SP. Msi, Dr. Juniarti, SP. MP  | Exploration, Characterization and Phenology of Sorghum (Sorghum Bicolor L) Germination as a Collection Source of Germplasm and Nutritious Food                                 | Beginner Lecturer Research (RDP)   | 20.000.000 |
| 7 | DIAN FIANTIS                                                           | Mapping the Decomposition Rate of Organic Material in the Volcanic Soil of Mt. Kerinci, West Sumatra                                                                           | Indexed Publication Research (RPT) | 20.000.000 |
| 8 | GUSTIAN                                                                | Strengthening Somatic Embryo Regeneration Protocols to Support In Vitro Mutations in Soybean Plants (Glycine Max L.) Tolerating Drought Stress                                 | Indexed Publication Research (RPT) | 20.000.000 |
| 9 | ZULDADAN NASPENDRA                                                     | The Effect of Sand Substratum Type,                                                                                                                                            | Indexed Publication                | 20.000.000 |

|  |               |                                                                                                                    |                |                    |
|--|---------------|--------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|  |               | Marine and Non-Marine Clay on the Properties of Coastal Shallow Peat and Its Relationship with Palm Oil Production | Research (RPT) |                    |
|  | <b>AMOUNT</b> |                                                                                                                    |                | <b>428.300.000</b> |

| <b>FUNDED IN THE 2023 BUDGET YEAR</b> |                          |                                                                                                                                                                         |             |             |
|---------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|
|                                       |                          |                                                                                                                                                                         |             |             |
|                                       |                          |                                                                                                                                                                         |             |             |
| <b>NO.</b>                            | <b>RESEARCHER'S NAME</b> | <b>RESEARCH TITLE</b>                                                                                                                                                   | <b>SKIM</b> | <b>FUND</b> |
| 1                                     | HERVIYANTI               | Application of Amelioration and Biopesticide Technology Based on Local Resources for Certified Healthy Vegetable Farming Businesses in Banuhampu District, Agam Regency | PTKN        | 171.000.000 |
| 2                                     | HERVIYANTI               | Subituminus formulation with rice husk biochar in overcoming the effects of pesticide residues on inceptisol for horticultural crops                                    | GB          | 100.000.000 |
| 3                                     | Irwan Darfis             | Waste Biochar residues on mercury inactivation in ex-gold mining soil and the growth of tithonia as a bio indicator                                                     | RT          | 30.000.000  |
| 4                                     | Mimien Harianti          | Regulation of Extracellular Nutrients and Enzymes in the Rhizosphere of Corn in the Kinali Peatlands of West Pasaman with Biochar Application                           | RD          | 30.000.000  |