

## STAFF HANDBOOK



<b>Name</b>	<b>Prof. Dr. Rudiana Agustini, M.Pd.</b>			
<b>Position</b>	<b>Professor in Biochemistry and Chemistry Education</b>			
<b>Academic Career</b>	<b>Degree</b>	<b>University</b>		<b>Year</b>
	<i>Bachelor Degree (Biology Education)</i>	<i>IKIP Surabaya - Indonesia</i>		<i>1984</i>
	<i>Master Degree (Biology Education)</i>	<i>IKIP Surabaya - Indonesia</i>		<i>1988</i>
	<i>Doctoral Degree (Biochemistry)</i>	<i>UNAIR - Indonesia</i>		<i>2003</i>
<b>Employment</b>	<b>Position</b>	<b>Employer</b>		<b>Period</b>
	<i>Professor</i>	<i>Universitas Negeri Surabaya – Indonesia</i>		
<b>Research and Development Project Over the Last 5 Years</b>	<b>Title</b>	<b>Funder</b>	<b>Year</b>	<b>Amount of Financing (million)</b>
	<i>CCPS (Connected Creative Problem Solving) Model of Thinking Skills Training for Chemistry Teacher Candidate Students</i>	<i>DRTPM</i>	<i>2023</i>	<i>131,4</i>
	<i>Study of Phytochemical, Microbiological, and Organoleptic Probiotic Herbal-Based Kombucha Tea as a Natural Anti-Inflammatory</i>	<i>Penelitian Skema Dasar</i>	<i>2023</i>	<i>30</i>
	<i>Formulation of Toothpaste with Active Ingredients Nano Hydroxyapatite and Silver Nanoparticles for Prevention of Dental Caries</i>	<i>DRTPM</i>	<i>2023</i>	<i>25,8</i>
	<i>Study of Nut-Based Synbiotic Technology and Lactic Acid Bacteria for Blood Glucose Regulation Through Improvement of Microbiome, Intestinum and Pancreas</i>	<i>DRTPM</i>	<i>2023</i>	<i>159,7</i>
	<i>Nano-Technology of Black Yeast-Rice Extract as an Anti-Diabetes Mellitus Type 2 (Covid-19 Disorders)</i>	<i>DRPM</i>	<i>2022</i>	<i>157,575</i>

<i>Development of Chemistry Lecture Tools to Reduce Logical Fallacy in Arguing</i>	<i>Penelitian Kompetitif FMIPA</i>	<i>2022</i>	<i>20</i>
<i>Bioprocess Technology for Making Probiotic Drinks Based on Gude Beans (Cajanus cajan (L) Mill sp) Fortification with Bueberry Extract as a Source of Antioxidants to Boost the Immune System</i>	<i>Penelitian dasar LPPM</i>	<i>2022</i>	<i>35</i>
<i>Black Yeast Rice Extract Nano Technology as an anti-Diabetes Mellitus Type 2 (Covid-19 Comorbid Disorders)</i>	<i>DRPM</i>	<i>2021</i>	<i>212,380</i>
<i>Implementation of Assessment-as-Learning Based Learning in Basic Chemistry Courses to Improve Students' Metacognitive Skills</i>	<i>Penelitian PNBP( Penelitian Kebijakan FMIPA)</i>	<i>2021</i>	<i>20</i>
<i>Nanoencapsulation of Yeast-Black Rice Extract as a Preparation for Anti-Diabetic Mellitus Type 2 (Covid-19 Concomitant Disorders)</i>	<i>Penelitian Dasar Unggulan Perguruan Tinggi</i>	<i>2020</i>	<i>183,63</i>
<i>Utilization of Soybean Seed Amylase Enzyme as an Additive in the Production of Instant Red Rice Powder MP-ASI (Complementary Foods to Breast Milk)</i>	<i>Penelitian Kompetitif LPPM Dana PNBP (Guru Besar)</i>	<i>2020</i>	<i>40</i>
<i>Potential Antioxidants in Spiced Soy Milk to Boost the Immune System as an Antidote for Covid 19</i>	<i>Penelitian Kebijakan FMIPA</i>	<i>2020</i>	
<i>Immobilization of Soybean Amylase Enzyme (Glycine Max) Using the Entrapment Method to Support Superior Products and Their Learning at Unesa</i>	<i>Penelitian Guru Besar Dana PNBP FMIPA Unesa</i>	<i>2019</i>	<i>40</i>
<i>Utilization of Enzymatic Yeast Hydrolysate (YHE) Produced in Various Growth Media as a Type 2 Diabetes Mellitus (OM) Drug by Assessing the Content of Chromium (III)</i>	<i>Penelitian Dasar Unggulan Perguruan Tinggi (tahun III)</i>	<i>2019</i>	
<i>Amylase Production Uses Local Biological Resources to Support the Availability of Unesa's Enzymes and Superior Products</i>	<i>Penelitian Kebijakan Pascasarjana</i>	<i>2018</i>	<i>50</i>
<i>Utilization of Enzymatic Yeast Hydrolysate (YHE) Produced in Various Growth Media as a Type 2 Diabetes Mellitus (OM) Drug by Assessing the Content of Chromium (III)</i>	<i>Penelitian Dasar Unggulan Perguruan Tinggi (tahun II)</i>	<i>2018</i>	<i>103,250</i>
<i>Development of Teaching Materials for ICT-Based Guided Inquiry Models to Train Critical Thinking Skills and Science Literacy for Junior High School Students</i>	<i>Penelitian Kebijakan Pasca</i>	<i>2017</i>	<i>60</i>
<i>Utilization of Enzymatic Yeast Hydrolysate (YHE) Produced in Various Growth Media as a Medicine</i>	<i>Penelitian Dasar Unggulan</i>	<i>2017</i>	<i>79,028</i>

	<i>for Type 2 Diabetes Mellitus (OM) by Assessing the Content of Chromium (III)</i>	<i>Perguruan Tinggi (tahun I)</i>		
	<i>Degraded Yeast Hydrolysate Enzyme (YHE) Using Pineapple Bromolein as Material for Microbiology and Biofertilization Culture Media Preparation</i>	<i>Hibah Bersaing Lanjutan</i>	<i>2016</i>	
<b>Community Service Over The Last 5 Years</b>	<b>Title</b>	<b>Funder</b>	<b>Year</b>	<b>Amount of Financing (million)</b>
	<i>Argument-based question preparation training for Chemistry Teachers in Gresik Regency</i>	<i>PKM Kebijakan FMIPA</i>	<i>2023</i>	<i>10</i>
	<i>Assessment for Learning Implementation Training in Chemistry Learning to Support the Implementation of the Free Learning Curriculum in Nganjuk Regency.</i>	<i>PKM Kebijakan FMIPA</i>	<i>2022</i>	<i>10</i>
	<i>Argumentation Skills Training for MGMP Sampang Chemistry Teachers as an Effort to Prepare for 2021 Century Skills</i>	<i>PKM Kebijakan FMIPA</i>	<i>2021</i>	<i>10</i>
	<i>ESD-Based Science Learning Tool Development Training on Climate Change Material to Increase Environmental Literacy for Middle School Science Teachers in Nganjuk Regency</i>	<i>PKM Kebijakan Pascasarjana</i>	<i>2021</i>	<i>15</i>
	<i>Virtual Media Training for online learning as a result of the Covid-19 Outbreak for chemistry teachers in Greater Surabaya</i>	<i>PKM Kebijakan FMIPA</i>	<i>2020</i>	<i>7</i>
	<i>Virtual Media Training for Online Learning as a Result of the Covid-19 Outbreak for Chemistry Teachers in Greater Surabaya</i>	<i>BOPTN FMIPA</i>	<i>2020</i>	<i>7</i>
	<i>Healthy and Halal Food Training for Traditional Cake Managers in Sumenep Regency</i>	<i>PNBP FMIPA</i>	<i>2019</i>	<i>7,5</i>
	<i>Learning Training and Higher Order Thinking Skills (HoTs) Science Subject SMP/MTs</i>	<i>PNBP Pascasarjana</i>	<i>2019</i>	<i>15</i>
	<i>Healthy and Halal Food Training for Traditional Cake Managers in Sumenep Regency</i>	<i>BOPTN FMIPA</i>	<i>2019</i>	<i>7,5</i>
	<i>Training on Making Innovative Learning Works (INOBEL) for Science Teachers in Lombok Regency</i>	<i>PNBP Pascasarjana</i>	<i>2018</i>	<i>20</i>
	<i>Training on Making Innovative Learning Works (Inobel) for Middle School Science Teachers in Lamongan Regency</i>	<i>PNBP Pascasarjana</i>	<i>2017</i>	<i>14</i>
<b>Industry Collaborations</b>	<b>Title</b>	<b>Partner</b>		<b>Year</b>

Over the Last 5 Years			
Patents and Property Right	<b>Title</b>	<b>Patent ID</b>	<b>Year</b>
	<i>Buku Ajar Mahasiswa Materi Asam Basa Dan Sifat Koligatif Larutan Berbasis Model Critical Thinking Cycle (CTC)</i>	000484519/ EC00202351584	2023
	<i>Lembar Kegiatan Mahasiswa Materi Asam Basa Dan Sifat Koligatif Larutan Berbasis Model Critical Thinking Cycle (CTC)</i>	000484520/ EC00202351585	2023
	<i>Model GO_KAR Untuk Memfasilitasi Peningkatkan Keterampilan Berfikir Kreatif Dan Kemandirian Belajar IPA Siswa Di SMP.</i>	000209565	2020
	<i>Modul</i>	000209585	2020
	<i>Mineral Fungsi dan Metabolisme</i>	978-979-9039-95-8	2019
	<i>Scaffolding Pendekatan Saintifik</i>	02326	2017
	<i>Buku Asesmen</i>	082604	2016
Important Publications Over the Last 5 Years	<ol style="list-style-type: none"> <li>Suyatno, <b>Agustini, R.</b>, &amp; Fikriyati, A. (2023). <i>Online Critical Thinking Cycle Model to Improve Pre-service Science Teacher's Critical Thinking Dispositions and Critical Thinking Skills</i>. Pegem Journal of Education and Instruction, Vol. 13, No. 2, 2023 (pp. 173-181). <a href="https://doi.org/10.47750/pegegog.13.02.21">https://doi.org/10.47750/pegegog.13.02.21</a></li> <li><b>Agustini, R.</b>, Sanjaya, I.G.M., &amp; Herdyastuti, N. (2023). <i>In Vivo Assessment of Nanocapsules of Black Rice (Zizania aquatica) Yeast Extract in Diabetes Mellitus Type 2-Induced Mice (Mus musculus)</i>. Tropical Journal of Natural Product Research, Vol. 7 (1): 2237–2243. <a href="http://www.doi.org/10.26538/tjnpr/v7i1.23">http://www.doi.org/10.26538/tjnpr/v7i1.23</a></li> <li>Fikriyati, A., <b>Agustini, R.</b>, and Suyatno. (2022). <i>Critical thinking cycle model to promote critical thinking disposition and critical thinking skills of pre-service science teacher</i>. Cypriot Journal of Educational Sciences, Volume 17, Issue 1, (2022) 130-143.</li> <li>Fikriyati, A., <b>Agustini, R.</b>, and Suyatno. (2022). <i>Pre-service Science Teachers' Critical Thinking Disposition s and Critical Thinking Skills</i>. Proceedings of the Eighth Southeast Asia Design Research (SEA-DR) &amp; the Second Science, Technology, Education, Arts, Culture, and Humanity (STEACH) International Conference (SEADR-STEACH 2021, Atlantis Press.</li> <li>Danila, R., and <b>Agustini, R.</b> (2021). <i>Analisis Keterampilan Metakognitif Peserta Didik Menggunakan Model Inkuiri Terbimbing pada Materi Laju Reaksi Berbasis Pembelajaran Daring</i>. Jurnal Kependidikan: Jurnal Hasil Penelitian dan Kajian Kepustakaan di Bidang Pendidikan, Pengajaran dan Pembelajaran Vol. 7, No. 3. Pp 596-606.</li> <li>Layyina, N., <b>Agustini, R.</b>, and Indana, S. (2021). <i>Efektifitas Perangkat Pembelajaran IPA Berorientasi Model Inkuiri untuk Melatihkan Keterampilan Berpikir Kreatif Siswa</i>. JPPS (Jurnal Penelitian Pendidikan Sains) 10 (2), 2005-2015</li> <li>Rusmini, R., Suyono, S., and <b>Agustini, R.</b> (2021). <i>Analysis of science process skills of chemical education students through self project based learning (SjBL) in the pandemic COVID 19 era</i>. Journal of Technology and Science Education 11 (2), 371- 387.</li> <li>Ramadhanti, A., and <b>Agustini, R.</b> (2021). <i>Analisis Keterampilan Berpikir Kritis Peserta Didik Melalui Model Inkuiri Terbimbing Pada Materi Laju Reaksi</i>. Jurnal Kependidikan: Jurnal Hasil Penelitian dan Kajian Kepustakaan di Bidang Pendidikan, Pengajaran dan Pembelajaran Vol. 7, No. 3. Pp 385-394.</li> </ol>		

9. Istiqah, W., Agustini, R., Budijastuti, W. (2021). Pengembangan Perangkat Pembelajaran IPA Menggunakan Model PBL (Problem Based Learning) Pada Materi Sistem Pencernaan Manusia Untuk Meningkatkan Keterampilan Berpikir Kritis Peserta Didik di SMPN 02 Suboh. *Jurnal Education and Development* 9 (2), 237-243
10. Handayani, S.A., Rahayu, Y.S., and **Agustini, R.** (2021). Students' Creative Thinking Skills in Biology Learning: Fluency, Flexibility, Originality, and Elaboration. *Journal of Physics: Conference Series* 1747 (1), 012040.
11. Agustiana, I.G.A.T., **Agustini, R.**, Ibrahim, M., and Tika I.N. (2020). Creative Thinking Ability of Improving Teacher Education of Primary School Students with Creative Learning Model. *NOLEGEIN-Journal of Business Ethics, Ethos & CSR*, 7-13.
12. Pratikno, P, Suyono, S., and **Agustini, R.** (2020). The Validity of Student Worksheets and Student Textbooks Inquiry Training Model on The Colligative Properties of Solution. *International Journal for Educational and Vocational Studies* 2 (11).
13. **Agustini, R.** Enhancement Of Students'critical Thinking Skill In Fungsi Concepts Based On Science, Technology, And Society Learning Approach. *Jurnal Inovasi Pembelajaran Biologi* Vol. 1 (2), pp.44-49
14. **Agustini, R.**, and Herdyastuti, N. (2020). The Study of Amylase's Reaction Kinetics From Soybean Sprouts (*Glycine max L.*) in Hydrolyzing Starch. *International Joint Conference on Science and Engineering (IJCSE 2020)*, 331-336.
15. Yunita, N.S.P., **Agustini, R.** (2020). Validity of Learning Matter Based on A Scientific Approach on Chemical Equilibrium Material. *UNESA Journal of Chemical Education* 9 (3), 437-443.
16. Akhdinirwanto, R.W., **Agustini, R.**, Jatmiko, B. (2020). Problem-Based Learning with Argumentation as a Hypothetical Model to Increase the Critical Thinking Skills for Junior High School Students. *Jurnal Pendidikan IPA Indonesia* 9 (3), 340-350.
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18. Agustiana, I.G.A.T., **Agustini, R.**, Ibrahim, M., and Tika I.N. (2020). The Effect of OPPEMEI Model on Students' Creative Thinking Skill and Cognitive Learning Achievement. *International Joint Conference on Science and Engineering (IJCSE 2020)*, 219-224.
19. Agustiana, I.G.A.T., **Agustini, R.**, Ibrahim, M., and Tika I.N. (2020). Efektivitas Model OPPEMEI untuk Meningkatkan Kemampuan Berpikir Kreatif Mahasiswa. *Journal of Education Technology* 4 (2), 150-160.
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21. Wakhidah, N., Ibrahim, M., **Agustini, R.**, and Erman, E. (2020). Validitas Strategi Scaffolding IMWR (Inspiring-Modeling-Writing-Reporting) Pada Pendekatan Saintifik. *Edukasi: Jurnal Pendidikan* 18 (1), 1-12.
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23. Fuaidah, N., Madlazim, M., and **Agustini, R.** (2020). Learning Device Requirement Science Education By Problem Based Learning (PBL) To Increase High Order Thinking Skills Junior High Schools. *JPPS (Jurnal Penelitian Pendidikan Sains)* 9 (2), 1797-1803.
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39. **Agustini, R. (2019)** *Hepar Histology of Mice(Mus musculus L) Indicated by Pre-Diabetes Mellitus Type 2 (Pre-Type 2 DM) After Red Rice Yeast Treatment.* Advances in Computer Science Research Vol 95, ISBN 978-94-6252-874-1, ISSN 2352-538X, MISEIC 2019. <https://rasayanjournal.co.in/admin/php/upload/778.pdf.pdf>

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	55. <b>Agustini, R., and Sanjaya, I.G.M.</b> (2018). <i>Determination of Chromium Content in Various Foodstuffs. Proceedings of International Joint Conference on Science and Technology, Vol 1 No 1, pp: 474-479</i>		
<b>Activities in Specialist Bodies Over the Last 5 Years</b>	<b>Organization</b>	<b>Role</b>	<b>Period</b>