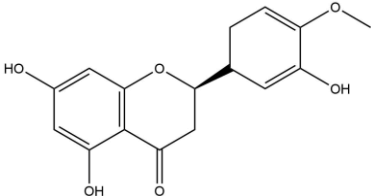
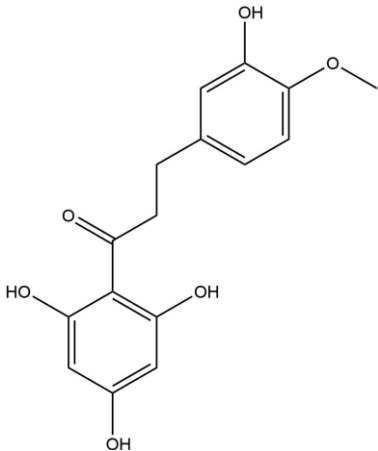
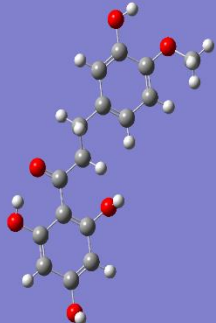
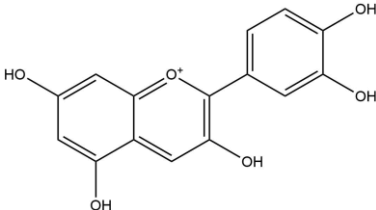
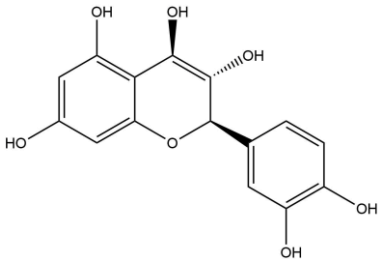
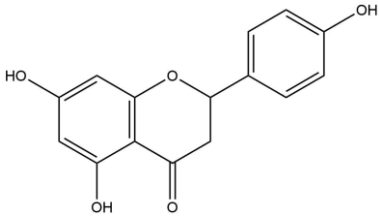
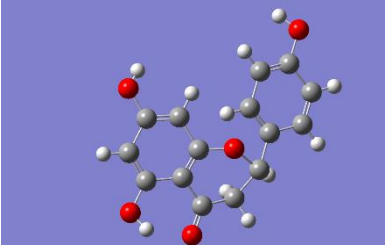
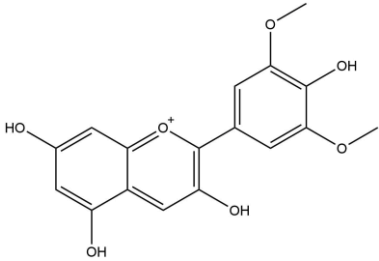
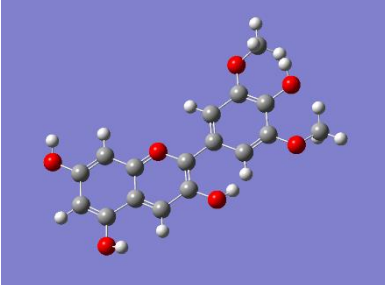
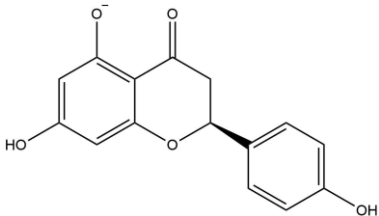
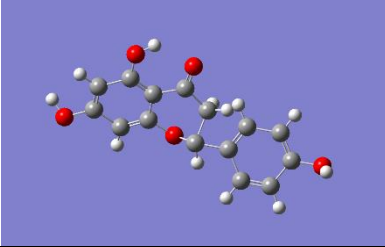
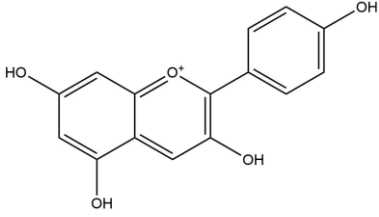
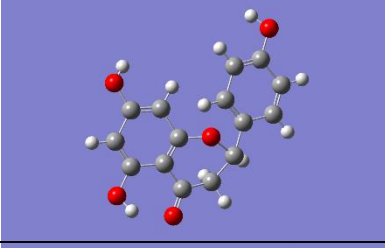
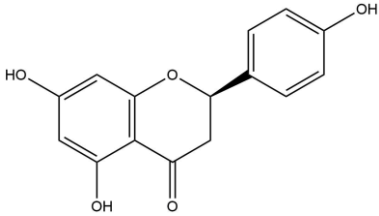
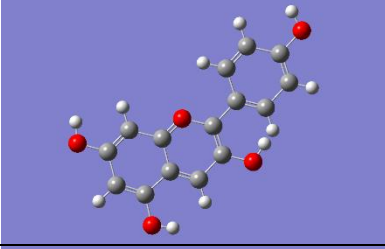
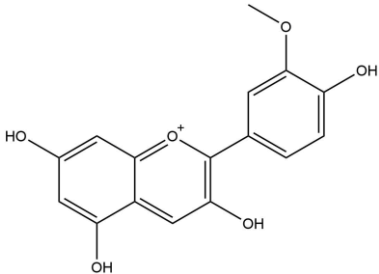
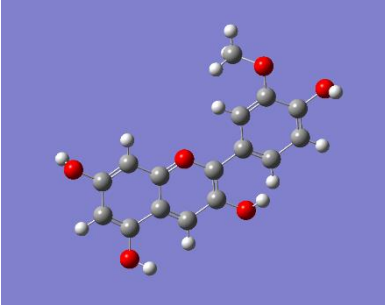


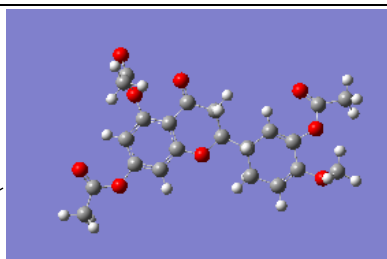
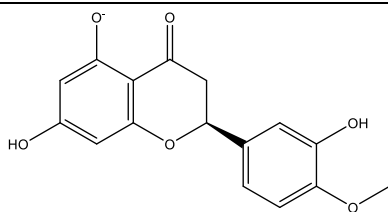
LAMPIRAN

Lampiran 1: Daftar Senyawa Uji Yang Tervalidasi Optimasi Geometri

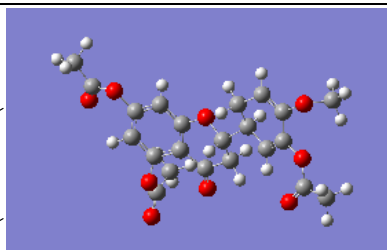
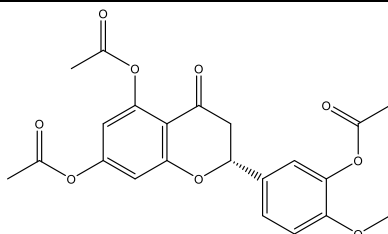
No	Nama Senyawa	Gambar Stuktur 2D	Gambar Struktur 3D
1	Hesperetin		
2	Hesperetin Dihydrochalcone		
3	Cyanidin		
4	Leucocyanidin		

5	Malvidin		
6	Naringenin		
7	Nargenin Flavanone		
8	Naringenin Pelargonidin		
9	Pelargonidin		
10	Peonidin		

11

Hesperetin
Anion

12

Hesperetin
Triacetate

Lampiran 2: Hasil Docking dari Ligand Alami

Keeping original residue number (specified in the input PDBQ file) for outputting.

```

MODEL          91
USER           Run = 91
USER           Cluster Rank = 1
USER           Number of conformations in this cluster = 65
USER
USER           RMSD from reference structure      = 1.578 A
USER
USER           Estimated Free Energy of Binding   = -7.87 kcal/mol  [(1)+(2)+(3)-(4)]
USER           Estimated Inhibition Constant, Ki  = 1.69 uM (micromolar) [Temperature = 298.15 K]
USER
USER           (1) Final Intermolecular Energy   = -9.07 kcal/mol
USER           vdW + Hbond + desolv Energy       = -7.25 kcal/mol
USER           Electrostatic Energy              = -1.82 kcal/mol
USER           (2) Final Total Internal Energy   = -1.01 kcal/mol
USER           (3) Torsional Free Energy         = +1.19 kcal/mol
USER           (4) Unbound System's Energy      [(2)] = -1.01 kcal/mol
USER
USER
USER           DPF = dockGA100.dpf
USER           NEWDPF move      lig.pdbqt
USER           NEWDPF about     38.602000 51.144000 36.819000
USER           NEWDPF tran0     37.803771 51.529072 37.473961
USER           NEWDPF axisangle0 0.567588 -0.703825 0.427170 36.591524
USER           NEWDPF quaternion0 0.178179 -0.220946 0.134098 0.949449
USER           NEWDPF dihe0     45.77 113.74 -156.40 35.25
USER
USER           x      y      z      vdW      Elec      q      RMS
ATOM      1  C7  LF7  A  801    39.022  51.447  35.940 -0.26 -0.39  +0.230  1.578
ATOM      2  C8  LF7  A  801    39.071  51.585  37.485 -0.26 -0.03  +0.034  1.578
ATOM      3  C1  LF7  A  801    40.512  51.332  37.962 -0.18 -0.00  +0.004  1.578
ATOM      4  C2  LF7  A  801    41.041  49.963  37.480 -0.26 -0.00  +0.000  1.578
ATOM      5  C10 LF7  A  801    41.012  49.894  35.948 -0.34 -0.00  +0.004  1.578
ATOM      6  C9  LF7  A  801    39.520  50.046  35.545 -0.26 -0.05  +0.034  1.578
ATOM      7  C5  LF7  A  801    41.856  51.047  35.375 -0.33 -0.04  +0.031  1.578
ATOM      8  C21 LF7  A  801    41.393  52.449  37.388 -0.18 -0.03  +0.031  1.578
ATOM      9  C3  LF7  A  801    41.346  52.404  35.863 -0.25 -0.18  +0.129  1.578
ATOM     10  O4  LF7  A  801    42.155  53.460  35.390 -0.24 +0.32  -0.226  1.578
ATOM     11  C6  LF7  A  801    39.907  52.564  35.351 -0.19 -0.15  +0.064  1.578
ATOM     12  N12 LF7  A  801    37.633  51.606  35.398 -0.23 -0.73  +0.345  1.578
ATOM     13  C13 LF7  A  801    36.575  51.602  36.459 -0.22 -0.47  +0.377  1.578
ATOM     14  C14 LF7  A  801    36.499  50.296  37.216 -0.25 -0.20  +0.271  1.578
ATOM     15  O20 LF7  A  801    36.718  50.220  38.425 -0.76 +0.07  -0.270  1.578
ATOM     16  N15 LF7  A  801    36.170  49.215  36.431 -0.25 +0.29  -0.315  1.578
ATOM     17  C19 LF7  A  801    35.880  49.274  34.998 -0.31 -0.13  +0.104  1.578
ATOM     18  C16 LF7  A  801    35.973  47.874  36.964 -0.51 -0.09  +0.127  1.578
ATOM     19  C18 LF7  A  801    35.360  47.865  34.654 -0.72 -0.03  +0.027  1.578
ATOM     20  C17 LF7  A  801    34.931  47.301  36.010 -0.74 -0.02  +0.031  1.578
ATOM     21  C20 LF7  A  801    37.299  47.136  37.055 -0.22 -0.09  +0.118  1.578
ATOM     22  N2  LF7  A  801    38.488  47.570  36.865 -0.29 +0.12  -0.149  1.578
TER
ENDMDL

```

Lampiran 3: Hasil Docking dari Senyawa Uji Terbaik S4 (Hesperetin Dihydrochalcone)

Keeping original residue number (specified in the input PDBQ file) for outputting.

```

MODEL          98
USER           Run = 98
USER           Cluster Rank = 1
USER           Number of conformations in this cluster = 14
USER
USER           RMSD from reference structure      = 72.004 A
USER
USER           Estimated Free Energy of Binding   = -6.30 kcal/mol [(1)+(2)+(3)-(4)]
USER           Estimated Inhibition Constant, Ki  = 24.09 uM (micromolar) [Temperature = 298.15 K]
USER
USER           (1) Final Intermolecular Energy   = -8.99 kcal/mol
USER           vdW + Hbond + desolv Energy       = -8.52 kcal/mol
USER           Electrostatic Energy              = -0.47 kcal/mol
USER           (2) Final Total Internal Energy   = -1.11 kcal/mol
USER           (3) Torsional Free Energy         = +2.68 kcal/mol
USER           (4) Unbound System's Energy [(2)] = -1.11 kcal/mol
USER
USER
USER           DPF = sample4.dpf
USER           NEWDPF move      sample4.pdbqt
USER           NEWDPF about     0.314000 -0.081000 0.076000
USER           NEWDPF tran0     40.646414 50.277793 36.477778
USER           NEWDPF axisangle0 -0.037865 0.998580 -0.037461 -175.082031
USER           NEWDPF quaternion0 -0.037830 0.997661 -0.037426 -0.042904
USER           NEWDPF dihe0     -5.16 2.72 -155.85 -51.32 -65.83 -142.09 114.54 49.76 62.32
USER
USER           x      y      z      vdW      Elec      q      RMS
ATOM      1  C      0      36.761 50.970 36.127 -0.38 -0.11 +0.085 72.004
ATOM      2  C      0      35.620 50.158 36.109 -0.40 -0.08 +0.074 72.004
ATOM      3  C      0      35.756 48.789 36.307 -0.52 -0.06 +0.071 72.004
ATOM      4  C      0      37.013 48.207 36.523 -0.48 -0.06 +0.074 72.004
ATOM      5  C      0      38.141 49.016 36.540 -0.31 -0.08 +0.085 72.004
ATOM      6  C      0      38.073 50.425 36.344 -0.31 -0.09 +0.076 72.004
ATOM      7  O      0      36.561 52.298 35.928 -0.71 +0.58 -0.360 72.004
ATOM      8  H      0      37.445 52.774 36.048 -0.42 -0.50 +0.217 72.004
ATOM      9  C      0      39.224 51.333 36.345 -0.25 -0.23 +0.165 72.004
ATOM     10  O      0      39.296 52.248 37.230 -0.15 +0.32 -0.292 72.004
ATOM     11  C      0      40.351 51.244 35.338 -0.30 -0.15 +0.088 72.004
ATOM     12  C      0      41.749 51.272 35.986 -0.26 -0.05 +0.046 72.004
ATOM     13  C      0      42.034 52.601 36.658 -0.15 +0.05 -0.055 72.004
ATOM     14  C      0      42.320 52.671 38.029 -0.09 -0.01 +0.010 72.004
ATOM     15  C      0      42.612 53.897 38.649 -0.11 -0.02 +0.040 72.004
ATOM     16  C      0      42.619 55.062 37.887 -0.20 -0.05 +0.101 72.004
ATOM     17  C      0      42.333 55.009 36.510 -0.33 -0.09 +0.099 72.004
ATOM     18  C      0      42.044 53.791 35.904 -0.25 -0.06 +0.046 72.004
ATOM     19  O      0      42.885 56.357 38.353 -0.19 +0.15 -0.353 72.004
ATOM     20  C      0      43.233 56.534 39.748 -0.14 -0.08 +0.210 72.004
ATOM     21  O      0      42.337 56.174 35.759 -0.92 +0.37 -0.358 72.004
ATOM     22  H      0      41.777 56.042 34.966 -0.40 -0.39 +0.217 72.004
ATOM     23  O      0      34.677 47.923 36.302 -0.36 +0.30 -0.361 72.004
ATOM     24  H      0      33.966 48.224 36.899 -0.29 -0.21 +0.217 72.004
ATOM     25  O      0      39.389 48.451 36.755 -0.19 +0.31 -0.360 72.004
ATOM     26  H      0      39.458 48.069 37.652 -0.40 -0.22 +0.217 72.004
TER
ENDMDL

```

Lampiran 4: Hasil Interaksi Ikatan Hidrogen

Senyawa	Akseptor	Donor	Jarak (Å)
LF7 (Alami)	A:LF7801:O20	A:TYR547:OH	2,88926
	A:LF7801:O20	A:TYR547:OH	2,88926
	A:GLU205:O	A:LF7801:O4	2,71822
	A:GLU205:O	A:LF7801:O4	2,71822
S1	S1:O	GLU205:OH	1,79
	S1:O	SER630:OH	2,03
	S1:O	TYR547:OH	1,86
	S1:O	SER209:OH	3,21
S2	GLU205:O	S2:OH	1,65
	S2:O	TYR662:OH	2,67
	S2:O	TYR662:OH	3,17
S3	A:GLU205:OE2	S3:H	1,64
	A:GLU205:O	S3:H	1,81
	S3:O	A:ARG125:NH1	3,16
S4	SENYAWA:O	A:ARG125:NH2	3,18847
	SENYAWA:O	A:ASN710:ND2	2,80256
	SENYAWA:O	A:ARG125:CD	3,00516
	SENYAWA:O	A:ARG125:NH2	3,18847
	SENYAWA:O	A:ARG125:CD	3,00516
	A:GLU205:O	SENYAWA:H	1,87921
	A:GLU205:OE2	SENYAWA:H	2,04665
	A:SER630:OG	SENYAWA:H	2,2323
	A:TYR547:OH	SENYAWA:H	2,06397
S5	SENYAWA:O	A:ARG125:NH2	3,30035
	SENYAWA:O	A:TYR662:OH	3,15773
	SENYAWA:O	A:ARG125:NH2	3,30035
	SENYAWA:O	A:TYR662:OH	3,15773

S6	SENYAWA:O	A:TYR666:OH	3,11725
	A:GLU205:OE2	SENYAWA:H	1,95384
	A:ASN710:OD1	SENYAWA:H	2,16707
	A:TYR547:OH	SENYAWA:H	1,82701
	A:TYR547:OH	SENYAWA:H	1,71883
	A:GLU205:O	SENYAWA:H	2,18366
	A:HIS126:NE2	SENYAWA:H	2,42858
	A:GLU205:OE2	SENYAWA:H	1,95384
	A:TYR662:OH	SENYAWA:H	2,21108
S7	A:SER630:OG	SENYAWA:H	2,09022
	A:GLU205:OE2	SENYAWA:H	2,72455
	A:GLU205:O	SENYAWA:H	2,79511
	A:SER209:OG	SENYAWA:H	2,25417
	A:GLU206:OE1	SENYAWA:H	1,87035
	A:SER209:OG	SENYAWA:H	2,25417
S8	SENYAWA:O	A:ARG125:NH2	2,99237
	SENYAWA:O	A:SER630:OG	2,94981
	SENYAWA:O	A:ARG125:NH2	2,99237
	SENYAWA:O	A:SER630:OG	2,94981
	A:GLU205:O	SENYAWA:H	1,97967
	A:GLU206:OE2	SENYAWA:H	2,90719
S9	SENYAWA:O	A:TYR547:OH	2,64561
	SENYAWA:O	A:TYR666:OH	2,97333
	A:TYR662:OH	SENYAWA:H	2,2869
	A:ASN710:OD1	SENYAWA:H	2,34842
	A:TYR547:OH	SENYAWA:H	1,98273
	A:HIS126:NE2	SENYAWA:H	2,81132
S10	SENYAWA:O	A:ARG125:NH2	2,97707
	SENYAWA:O	A:SER630:OG	2,92289
	SENYAWA:O	A:ARG125:NH2	2,97707
	SENYAWA:O	A:SER630:OG	2,92289
	A:GLU205:O	SENYAWA:H	1,94423

S11	SENYAWA:O	A:ARG125:NH2	3,2071
	A:GLU204:O	SENYAWA:H	3,08867
	A:GLU205:O	SENYAWA:H	1,8662
	A:SER630:OG	SENYAWA:H	2,18309
	A:TYR547:OH	SENYAWA:H	2,03355
S12	A:SER630:OG	SENYAWA:H	2,2313
	A:TYR547:OH	SENYAWA:H	2,02847
	A:GLU205:O	SENYAWA:H	1,91535
	A:SER630:OG	SENYAWA:H	2,2313
	A:TYR547:OH	SENYAWA:H	2,02847
	A:GLU205:O	SENYAWA:H	1,91535

Lampiran 5: Cek Plagiarisme Dengan Turnitin

112. Skripsi Nanda Fajri Zamroni_11181165

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Lampiran 6: Daftar Riwayat Hidup



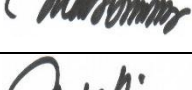
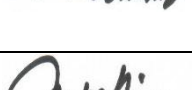
Nama : NANDA FAJRI ZAMRONI
Tempat/Tanggal Lahir : TANGERANG, 23 MEI 2000
Jenis Kelamin : LAKI-LAKI
Agama : ISLAM
Kewarganegaraan : INDONESIA
Alamat : JL. CILENGGANG 2 RT 09/RW 03, KELURAHAN CILENGGANG, KECAMATAN SERPONG, KOTA TANGERANG SELATAN, BANTEN
Telepon/HP : 0882-1864-4200
Email : nandafajri05@gmail.com

RIWAYAT PENDIDIKAN	
SD NEGERI CILENGGANG 05	2006 – 2012
SMP NEGERI 11 KOTA TANGERANG SELATAN	2012 – 2015
SMA NEGERI 12 KOTA TANGERANG SELATAN	2015 – 2018
UNIVERSITAS BHAKTI KENCANA BANDUNG (S1 FARMASI)	2018 – 2023

PENGALAMAN PENELITIAN	
JUDUL PENELITIAN	TAHUN
Penambatan Molekul Senyawa Flavonoid Jantung Pisang (<i>Musa sp.</i>) sebagai Inhibitor DPP-4 yang Berpotensi Memberikan Efek Antidiabetes	2023
FORMULASI SEDIAAN GEL ANTIJERAWAT FRAKSI N-HEKSAN JAMUR SHIITAKE (<i>Lentinula edodes</i>) DAN UJI AKTIVITAS ANTIBAKTERI SECARA INVITRO	2020

Lampiran 7: Kartu Bimbingan**KARTU BIMBINGAN TUGAS AKHIR II**

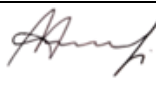
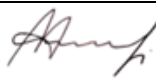
Pembimbing Utama	: Dr. apt. Deden Indra Dinata, M.Si.
Nama Mahasiswa	: Nanda Fajri Zamroni
NPM	: 11181165
Bidang Ilmu	: AFKM

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Jum'at, 11 Maret 2022	16.00	Via Video Conference – Zoom Meeting	Diskusi dan Revisi hasil Sidang Proposal	
2	Jum'at, 22 April 2022	15.30 – 16.30	Via Video Conference – Zoom Meeting	Laporan progress kemajuan Tugas Akhir	
3	Selasa, 21 Juni 2022	09.00	Offline (Kediaman Pak Deden)	Laporan progress kemajuan Tugas Akhir	
4	Selasa, 21 Juni 2022	10.00	Offline (Kediaman Pak Deden)	Diskusi tentang pembahasan dan kesimpulan	
5	Selasa, 28 Juni 2022	14.00	Via Whatsapp	Laporan dan masukkan untuk Draft bagian hasil dan pembahasan	
6	Jum'at, 30 Juni 2022	12.00	Offline	Laporan hasil draft dan penandatanganan lembar pengesahan	
7	Jum'at, 30 Juni 2022	15.00	Via Whatsapp	Masukan mengenai format penulisan laporan TA 2	
8	Sabtu, 02 Juli 2022	06.00	Via Whatsapp	Pemberian masukan dan koreksi dari draft secara keseluruhan	
9	Minggu 23 Juli 2023	17-00 - selesai	Offline	Revisi draft (penggantian judul), perbaikan abstrak, tujuan, ppt, serta interpretasi hasil,	
10	Senin, 7 Agustus 2023	19.00-selesai	Offline	Tanda tangan lembar pengesahan skripsi dan pemberian arahan dalam menghadapi sidang skripsi.	

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.

KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Serta	: Emma Emmawati, M.Si.
Nama Mahasiswa	: Nanda Fajri Zamroni
NPM	: 11181165
Bidang Ilmu	: AFKM

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Selasa, 1 Februari 2022	09.00	Luring (Kediaman bu Emma)	Presentasi dan menjelaskan progress ke ibu Emma secara langsung (presentasi secara keseluruhan mengenai tema yang diambil)	
2	Selasa, 1 Februari 2022	09.00	Luring (Kediaman bu Emma)	Revisi BAB I secara langsung dengan bu Emma (mengapa mengambil reseptor dan senyawa yang diuji?)	
3	Selasa, 1 Februari 2022	09.00	Luring (Kediaman bu Emma)	Revisi BAB 2 Secara langsung dengan bu emma (pergantian ligand)	
4	Selasa, 1 Februari 2022	09.00	Luring	Revisi BAB 3&4 Secara langsung dengan bu Emma (menjelaskan point2 yang kurang dari prosedur dan metode yang dipakai)	
5	Selasa, 5 Februari 2022	11.00 - selesai	Daring (Whatsapp0)	Revisi Laporan dan Pengajuan proposal terhadap bu Emma	
6	Jum'at, 30 Juni 2022	12.00	Offline (Kampus)	Laporan hasil draft dan penandatanganan lembar pengesahan untuk kolokium	
7	Minggu, 23 July 2023	19.00 - selesai	Offline (Kediaman bu Emma)	Revisi laporan draft serta membahas tentang pertanyaan yang mungkin muncul saat siding kolokium	
8	Senin, 7 Agustus 2023	15.00 - selesai	Offline (Kampus)	Tanda tangan lembar pengesahan skripsi dan arahan dalam menghadapi sidang komprehensif	

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.