

BAHAGIAN B: KELAYAKAN

Bil	Nama Ijazah/Kelayakan Ikhtisas	Tahun Lulus	CGPA/Grade	Nama Universiti/Institusi
1.	Doctor of Philosophy (Fermentation Technology)	2013	4.0	Universiti Putra Malaysia
2.	Latihan bagi penyelidikan <i>Rhodococcus</i> proteomik	Jun-Julai 2008	-	Cambridge University dan Imperial Collage London, UK
3.	Master Science (Fermentation Technology)	1999-2003	3.0	Universiti Putra Malaysia
4.	Bachelor Science (Biotechnology)	1995-1999	2.858	Universiti Putra Malaysia

BAHAGIAN C: PENGALAMAN

No	Nama Jawatan/ Pemangkuhan, Penanggunagan kerja dll	Tarikh disahkan jawatan	Tempoh		Fakulti/Jabatan/Unit
			Dari	Hingga	
1	Director		15 Nov 2019	To date	Institut Bio-It Selangor, Universiti Selangor (UNISEL), Shah Alam, Selangor
2	Senior Lecturer	13 Feb 2012	Mei 2010	to date	Pusat Pengajian Asasi dan Umum, Universiti Selangor (UNISEL), Institut Bio-It Selangor, Universiti Selangor (UNISEL), Shah Alam, Selangor
3	Lecturer		1 Dec 2004	Mei 2010	Faculty Biotechnology & Life Sciences, Universiti Industri Selangor, Shah Alam.
4	Research Officer		2 May 2002	25 Nov 2004	(Biology Division) Malaysia Palm Oil Board (MPOB)
5	Secretary		1 April 2002	1 May 2002	YTS Engineerings Sdn. Bhd.
6	Graduate Research Assistant		1 Jun 1999	31 Dec 2001	Fermentation Technology Unit Universiti Putra Malaysia
7	Research Assistant		2 May 1999	31 May 1999	Department of Biotechnology, Universiti Putra Malaysia
8	Trainee		16 Mac 1998	9 May 1998	Chemistry Pathology Lab, HUSM, USM Kubang Kerian

BAHAGIAN D : KEAHLIAN DALAM BADAN PROFESIONAL

Bil.	Nama Badan Professional	Status (AJK/Ahli Biasa)
1.	Malaysian Society for Microbiology	AJK Biasa

**BAHAGIAN E: KEHADIRAN DALAM PERSIDANGAN, LAWATAN, SEMINAR,
KURSUS, BENGKEL DLL**

Bil.	Nama Persidangan, Lawatan, Seminar, Kursus, Bengkel dll	Anjuran	Tarikh/tahun
1.	Siri Program "Staff Enhancement 4/2017". Penceramah Prof. Dato' Dr. Mat Saad Baki, Universiti Selangor Tajuk Stress Management	UNISEL	11 Oktober 2017 Dewan Pro Canselor Unisel Kampus Shah Alam
2.	Islamic Worldwide Coe	COE UNISEL	23 Ogos 2017
3.	Program Bina Insan Staf Unisel 2017	UNISEL	10-13 Ogos 2017
4.	Hari Keluarga 2017	UNISEL	29 Julai 2017
5.	Professorial Talk 2017 by Ybhg. Dato' Prof. Dr. Noor Inayah binti Yaakub	UNISEL	6 Jun 2017
6.	Open Day 2017	UNISEL	21 Mei 2017
7.	John Talk	Institut Bio IT Sel	20 Febuari 2017
8.	Program Tadarus dan khatam Al-quran 2017	Institut Bio IT Sel	27 Mei-15 Jun 2017
9.	International conference on Life Sciences Revolution 2016. Past, Present, Future And Beyond "Building Skill And Multidisciplinay Workforce For The Life Sciences Industry Through Stem Education and Convergence Research Synergy"	Institut Bio IT Sel, Universiti Selangor dengan kerjasama SUK	29-30 November 2016
10.	Training of Trainers	UNISEL	23 March 2016
11.	IAB Women in Science International Seminar Woman's HealthL Food, Cancer and Cholestrol	Institut Bio IT Sel, Universiti Selangor dengan kerjasama SUK	26 November 2015
12.	International Conference On	Institut Bio IT Sel, Universiti	24-25

	Life Sciences Revolution 2015: Past, Present, Future And Beyond Harnessing The Power Of Microbes Through Convergence Of Life Sciences.	Selangor dengan kerjasama SUK	November 2015
13.	MOODLE 2.9 Learning Management System	UNISEL BJ	3-5 Ogos 2015
14.	Bengkel "Preparation of Outcome Based Education (OBE)"	UNISEL	10-12 April 2015
15.	Khatam Al-quran	BIOIT/IAB	10 Julai 2015
16.	Program Tadarus	BIOIT/IAB	18 Jun-9 Julai 2015
17.	Genome	Genome Malaysia	12 Jun 2015
18.	Ceramah Sains Teknologi Engineering Matematik	UNISEL	26 Mei 2015
19.	Nuclear talk	Institute Nuclear Malaysia	21 Jan 2015
20.	STEM	Kementerian Pendidikan Malaysia	11 September 2014
21.	National Academic Award (AAN) Speaker Series programme	Sunway University	6 Jun 2014
22.	Engaged Learning & ICTD	UNISEL	3-5 Jun 2014
23.	Khatam Al-quran	BIOIT/IAB	18 Julai 2014
24.	Program Tadarus	BIOIT/IAB	25 Jun-17 Julai 2014
25.	Monash Science Symposium 2014	MONash University Malaysia	18-19 Jun 2014
26.	Bengkel APMR	Unisel Shah Alam	9 Mei 2014
27.	Bengkel Sumbang Saran Memperkasakan Wanita di Sektor Pendidikan Tinggi dan Penyelidikan ke arah Perlaksanaan World Islamic Women University (WIWU)	UNISEL dan SUK	31 March 2014
28.	International Seminar on Women Empowerment (Speaker)	UNISEL	7 November 2013
29.	International Seminar on Tropical Bio-resources for Sustainable Bio-Industry	School of Life Sciences and Technology ITB, Bandung Indonesia	30-31 Oktober 2013
30.	Syarahan Perdana 2013: Pof Akhmaloka	Institut Bio IT Selangor	28 Oktober 2013
31.	Unisel Profesorial Lecture: Pemangkin Kecemerlangan Akademik dan Kemajuan Sainifik Unisel oleh Prof (E) . Dato' Dr. Abdul Latif Ibrahim	Unisel Shah Alam	24 Oktober 2013
32.	Ceramah Akademia Inovatif	Fakulti Perubatan Veterinar	3 Oktober

	Akademik Progresif		2013
33.	Ceramah Perdana Dato' Hassan Din Al-Hafiz	Unisel Shah Alam	12 September 2013
34.	Program Khatam Al-Quran	Unisel Shah Alam	2 Ogos 2013
35.	Program Tadarus Ramadhan	Unisel Shah Alam	10 Julai-1 Ogos 2013
36.	Professorial Talk: Siri syarahan umum professor Universiti Selangor.	LT2, Unisel Shah Alam	12 Jun 2013
37.	Seminar Nasional Pengembangan Sumber Daya Manusia Dan Perekonomian Masyarakat. (Pembentang)	Fakultas Peternakan Universitas Andalas, Padang, Indonesia.	22 April 2013
38.	Majlis Pelancaran Kelab Taman Botanical Quranik SRA Kg. Delek Klang.	SRA Kg Delek, Klang	16 April 2013
39.	Bengkel & Majlis Pelancaran Kelab Tunas Ilmuwan Selangor	Unisel Shah Alam	28 Februari 2013
40.	Kuala Lumpur Innovation Forum 2011		5-6 November 2012
41.	Inaugural Lecture: The Path of Muslim Scholar by Prof Abdel Salam Al-Majali, President of Islamic World Academy of Sciences (IAS)	Institute BioIT Selangor	18 Oktober 2012
42.	Unisel Research Colloquium 2012	Unisel Shah Alam	2-3 Oktober 2012
43.	Khatam Al-quran	BIOIT/IAB	03 Ogos 2012
44.	Program Tadarus	BIOIT/IAB	19 Julai-2 Ogos 2012
45.	Soal Jawab Agama bersama Ustaz Azhar Idrus	Fakulti Media Massa dan Komunikasi UNISEL	12 Jun 2012
46.	Tazkirah Bulanan: Panduan Penampilan Diri Berkualiti Bersama Dr. Rabiah Kulop Hamzah (Bahagian 2)	Badan Kebajikan staff UNISEL	25 Mei 2012
47.	Workshop on The Science of Health, Beauty and Ageing	IAB/BIOIT	8 Mei 2012
48.	IAB Women in Science International Symposium 2012	Concorde Hotel Shah Alam	7 Mei 2012
49.	Genom Malaysia DNA Day: Malaysia & A-IMBN: To	Genom Malaysia	21 April 2012

	Promote Malaysia as R&D and Innovation Hub		
50.	Tazkiran Bulanan BKSU: Panduan Penampilan Diri Berkualiti Bersama Dr. Rabiah Kulop Hamzah	Badan Kebajikan staff UNISEL	20 April 2012
51.	International Forum on Women in Sceince and Technology in Muslim Countries	Swiss Garden Hotel Kuala Lumpur	20-22 September 2011
52.	Khatam Al-quran	BIOIT/IAB	22 Ogos 2011
53.	Program Tadarus	BIOIT/IAB	18 Julai-19 Ogos 2011
54.	Seminar & Bengkel Kesihatan, kecantikan dan kesejahteraan	Unisel Shah Alam	14 Julai 2011
55.	Malaysian & A-IMBN: To promote Malaysia as R&D and Innovation Hub	Malaysia Genome Institute	12 April 2011
56.	Seminar on International Collaboration in Life Sciences and the Signing of Memorandum of Understanding between Institut BioIT Selangor & Faculty of Life Sciences, University of Manchester	Institut Bio IT Sel, Universiti Selangor dengan kerjasama SUK	14 March 2011
57.	Biotechnology Forum 2011: Biotechnology in Malaysia. A homecoming	Institut Bio IT Sel, Universiti Selangor dengan kerjasama SUK	28 Februari 2011
58.	IAB-IAS International Symposium 2010: 'Knowledge Society for the Innovation Economy'.	Institut Bio IT Sel, Universiti Selangor dengan kerjasama SUK	8 Dis-9 Dis 2010
59.	BioMalaysia 2010	Biotech Corp Malaysia	2 -4 Nov 2010.
60.	Post Evaluation R&D Initiative Projects	Mosti	29-30 Julai 2010
61.	Oral Presentation at World Congress on Engineering 2010: Conference of Systems Biology and Bioengineering	Imperial Collage London, United Kingdom (Pembentang Lisan)	30 Jun- 2 Julai 2010
62.	Biotechnology Conference		24-26 May 2010
63.	Training on Fundamental of High Performance Liquid	Unisel	19-20 May 2010

	Chromatography		
64.	IAS Conference 2009	Institut Bio IT Sel, Universiti Selangor dengan kerjasama SUK	14-17 Disember 2009
65.	Youth Science Forum	Unisel Shah Alam	13 Disember 2009
66.	BioMalaysia 2009	Institut Bio IT Sel, Universiti Selangor dengan kerjasama SUK	17-19 November 2009
67.	Technology Business Innovation Forum: The Green Technology- "New Opportunities for Business"	Technology Park Malaysia	21 Oktober 2009
68.	3 rd Regional Conference on Molecular Medicine (INFORMM)	Universiti Sains Malaysia	2-4 May 2009
69.	Bioinformatics Tools for protein-protein Interactions and Pathways Workshop	Institute System Biology	20-21 Januari 2009

BAHAGIAN F : SUMBANGAN TUGAS RASMI

Reviewer Journal			
JAWATANKUASA	PERINGKAT	JAWATAN	TAHUN
Journal: 3Biotech (BITC Journal) Manuscript: Batch growth kinetic studies of locally isolated cyanide-degrading <i>Serratia marcescens</i> strain AQ07	International	Reviewer	2017
Journal: 3Biotech (BITC Journal) Manuscript: Optimisation of biodegradation conditions for glyphosate removal by <i>Burkholderia vietnamiensis</i> strain AQ5-12 using one-factor-at-a-time and response surface methodology	International	Reviewer	2017
Journal: International Food Research Journal Manuscript: Biochemical Biomarkers: Fish Cholinesterase Biosensor for Heavy Metals Detection in Aquatic Pollution Monitoring	Kebangsaan	Reviewer	28 April 2016
Journal: Pertanika Journal of Scholarly Research Reviews Science	Kebangsaan	Reviewer	2016
Reviewer manuskrip (International Food Research Journal)	Kebangsaan	Reviewer	3 Ogos 2014

STEM			
JAWATANKUASA	PERINGKAT	JAWATAN	TAHUN
National Stem Movement	Kebangsaan	AJK, Fasilitator	2017, 2018
Program Pendidikan Sains, Teknologi, Kejuruteraan dan Matematik (STEM) Negeri Selangor 2015	BIOIT/SUK	AJK	26 Mei 2015
Bengkel Pendidikan STEM 2014 Kelab	BIOIT/SUK	AJK	11 September 2014

Tunas Ilmuwan Selangor			
Program ikon stem di Institut Pendidikan guru malaysia Di IPG Bandar Einstek	KEBANGSAAN	Facilitator	17 Oktober 2014
Perlantikan sebagai AJK Penganjuran Bengkel dan Majlis Pelancaran Kelab Tunas Ilmuwan Selangor	IAB/BIOIT/SUK	AJK	28 Februari 2013
Perlantikan sebagai Bendahari, ketua AJK pendaftaran Kelab Tunas Ilmuwan Selangor bgai Bengkel Tunas Ilmuwan Selangor 2013	IAB/BIOIT	AJK	20 Februari 2013
Perlantikan sebagai AJK Pelancaran Kelab Tunas Ilmuwan Selangor bagi Bengkel Tunas Ilmuwan Selangor 2013	IAB/BIOIT	AJK	20 Februari 2013

Penganjuran Conference seminar, bengkel			
JAWATANKUASA	PERINGKAT	JAWATAN	TAHUN
Program Tadarus dan khatam Al-quran	Institut	AJK	16 Jun 2017
Ketua jawatankuasa saintifik (Jawatankuasa Pengurusan) bagi International Conference on Life Science Revolution 2016	International	Ketua AJK	4 October 2016
Perasmian Quranic Botanical Garden	Negeri Selangor	AJK	27 September 2016
Khatam Al-quran	BIOIT/IAB	AJK	10 Julai 2015
Program Tadarus	BIOIT/IAB	AJK	18 Jun-9 Julai 2015
Khatam Al-quran	BIOIT/IAB	AJK	18 Julai 2014
Program Tadarus	BIOIT/IAB	AJK	25 Jun-17 Julai 2014
Syarahan Perdana 2013	IAB/BIOIT	AJK	28 Oktober 2013
Perlantikan sebagai Bendahari bagi Jawatankuasa Penganjuran "IAB Women in Science International	IAB/BIOIT	Bendahari Konferen	3 April 2012

Symposium			
Penganjuran Majlis Inaugural Lecture "The path of A Muslim Scholar"	UNISEL	AJK	18 Oktober 2011
IAB-IAS International Symposium 2010	IAB/BIOIT	AJK	8-9 Disember 2010

Penyelidikan, pembangunan			
TAJUK PROJEK DAN GERAN PENYELIDIKAN	PERINGKAT	JAWATAN	TAHUN
High Cell Density Cultivation Of Rhodococcus Sp. For The Production Of Lipase From Waste Cooking Oil And Its Application As Food Biocatalyst RM82200.00 Geran Kerajaan Selangor (Submitted)	Selangor	Ketua projek	2017
Bioprospecting And Characterization Of Microalgae From Selangor For Industrial Application RM82400.00 Geran Kerajaan Selangor (Submitted)	Selangor	Ahli projek	2017
<i>Rhodococcus</i> As Source Of Green Biocatalyst For Decolourization And Biodegradation Of Methyl Red Dye RM80310.00 Geran Kerajaan Selangor (Submitted)	Selangor	Ahli projek	2017
Rhodococcus as source of green biocatalyst for decolourization and biodegradation of methyl orange dye Geran Bestari Unisel RM10100,00 (Submitted)	Unisel	Ahli Projek	2017
High Cell Density Cultivation Of Rhodococcus Sp. For The Production Of Lipase From Waste Cooking Oil And Its Application As Food Biocatalyst	Kebangsaan	Ketua Projek	2017

RM249100 Geran: Frgs (Submitted)			
Enhanced decolourization and degradation of methyl red dye by encapsulated whole cells of <i>Rhodococcus</i>	Kebangsaan	Ahli projek	
RM194732 Geran: Frgs (Submitted)			
<i>Rhodococcus</i> as source of Green Enzyme for Industrial Biotechnology Pusat kecemerlangan Unisel COE (Submitted)	Unisel	Ahli projek	2017
(a) High Cell Density Cultivation For The Production Of Microbial Lipase And Its Application As Biocatalyst (UNISEL0039371) Applied E Science Fund Project Value: RM 397 700 E-science Fund (Submitted)	Kebangsaan	Ketua Projek	2016
Development Of <i>Rhodococcus</i> As A Novel Biological Tool For Bioremediation Of Textile Wastewaters (Unisel0020797) E Science Fund Application Project Value: RM 265 000 E-science Fund (Submitted)	Kebangsaan	Ahli Projek	2016
High Cell Density Cultivation For The Production Of Microbial Lipase And Its Application As Biocatalyst Toray (Submitted)	Kebangsaan	Ketua projek	2014
	Kebangsaan	Ahli Projek	2014

Screening and characterization of potential azo-dye degrading rhodococcus strains isolated from Peninsular Malaysia			
Toray (Submitted)			

Pentadbiran Unisel			
JAWATANKUASA	PERINGKAT	JAWATAN	TAHUN
Penilai Akademik (Dalaman) Universiti Selangor bagi Permohonan Kenaikan Pangkat ke Jawatan Pensyarah Kanan (Gred DS52)	UNISEL	Penilai Akademik (Dalaman)	4 Jun 2015
Ketua Program Master Life Science	Pusat Pengajian Siswazah	Ketua Program	1 April 2014-31 Mac 2015
Perlantikan Sebagai Panel Penilai Luar bagi Menyediakan "Annual Programme Monitoring Report (APMR), Unisel	UNISEL	Panel Penilai Luar	19 Mac 2014
Perlantikan sebagai AJK Mengkaji dan Menganalisa Amanah Tugas Akademik (ATA) 2014	UNISEL	AJK	19 Februari 2014
Perlantikan sebagai AJK Kurikulum program bagi program ijazah sarjana muda industri Bioteknologi (Kepujian)	Fakulti Sains dan Bioteknologi	AJK	28 Jun 2013
Perlantikan sebagai Penilai untuk <i>submission and defence of project paper proposal</i>	UNISEL	Penilai	21 Jun 2013
Perlantikan sebagai penyelaras penyelidikan & latihan dan Pasca ijazah bagi Institut Bio IT Selangor/IAB	IAB/BIOIT	Penyelaras	28 Mei 2013
Perancangan Strategik	BIO IT	AJK	6 Jun 2011
Perlantikan sebagai Penyelaras Pengurusan Majlis	BIOIT	Penyelarasa Program	3 Januari 2011
Sesi temuduga bersama Penel Penilai MQA	Fakulti	AJK	30 September 2010

Post-Evaluation R&D Initiative Projects	BIOIT	Ahli penyelidik	29- 30 Julai 2010
Perlantikan sebagai AJK TASK FORCE maklumbalas MQA bagi program ISM Industri Bioteknologi dan Diploma Industri Bioteknologi.	Fakulti	AJK	16 Julai 2010
Taklimat & temuduga lawatan MQA untuk penilaian perakuan akreditasi program diploma industri bioteknologi dan Ijazah sarjana muda Industri Bioteknologi dengan kepujian	Fakulti	Ahli	8 Oktober 2009

Lain-lain Program			
JAWATANKUASA	PERINGKAT	JAWATAN	TAHUN
Mevlana Exchange Academic Staff Training Mobility Program between the dates 19/03/2018 – 01/04/2018 for education visit.	International		

BAHAGIAN G: SUMBANGAN LUAR TUGAS RASMI

Aktiviti	Peringkat	Jawatan	Tahun
Sukarelawan Pertandingan "Choral speaking" Alam Sekitan Peringkat Kebangsaan 2016	Kebangsaan	AJK	26-28 April 2016
Temuramah Majalah Pa & Ma	Kebangsaan	Jemputan	2017
umah anak yatim Aman Sg Buloh	UNISEL	Penasihat Program Pelajar	2017
Rumah jagaan warga emas Lembaga Zakat Selangor	UNISEL	Penasihat Program Pelajar	2017
Program Gelandangan di Pusat Transit Gelandangan KL	UNISEL	Penasihat Program Pelajar	2017
Program Gelandangan	UNISEL	Penasihat Program Pelajar	2017
Pertandingan Badminton	UNISEL	Penasihat Program Pelajar	2017
Mesyuarat persatuan BAKAT Tentera Udara Di Raja Malaysia	TUDM	Ahli	2016
Temuramah di Televisyen Astro Sport 801	Kebangsaan	Jemputan	2014
Temuramah di Radio Suria FM	Kebangsaan	Jemputan	2014
Diabetes Walk for cure	Kebangsaan	Jemputan	2014
Pelancaran Tabung Kanak-kanak diabetes	Kebangsaan	Ahli	2014
Mesyuarat persatuan BAKAT Tentera Udara Di Raja Malaysia	TUDM	Ahli	2014
Year 2014 Science & Technology Research Grant (Menghantar proposal)	Kebangsaan		23 Julai 2014
Pameran 19 th Post Graduate Education Fair 214	UNISEL	Petugas	7 September 2014
Majlis penyerahan Watikah perlantikan Pro-Cancelor	UNISEL		28 Febuari 2014
Industrial Training place for final year student	UNISEL	Penyelia Industri	7 Jun 2013
Temuramah Majalah Pa & Ma	Kebangsaan	Jemputan	2012
Industrial Training place for student (NorSyuhaidah Hamzah)	UNISEL	Penyelia Industri	22 Nov 2010- 17 April 2011
Industrial Training place for student (Siti Rozziana Jeperi)	UNISEL	Penyelia Industri	22 Nov 2010- 17 April 2011
Industrial Training place for	UNISEL	Penyelia Industri	22 Nov 2010- 17

student (Nur Asma Fhadhila bt Zulrushdi)			April 2011
Majlis perhimpunan bulanan Jabatan-jabatan kerajaan negeri Selangor	Selangor	Wakil UNISEL	6 Disember 2010
Majlis Perhimpunan bulanan jabatan-jabatan kerajaan negeri selangor	Selangor	Wakil UNISEL	5 April 2010
Majlis pelancaran tabung penyelidikan Unisel	UNISEL	Ahli	1 Ferbuari 2010
Industrial Training place for student (Nur Ain Nor Mohammed)	UNISEL	Penyelia Industri	11 May 2009-22 Ogos 2009
Industrial Training place for student (Dayang Norlaila Hj Latip)	UNISEL	Penyelia Imdustri	11 Mei-22 Ogos 2009

BAHAGIAN H: PENGAJARAN DAN PENYELIAAN

H (a) Pengajaran

Kod Matapelajaran	Nama Matapelajaran	Peringkat	Semester & Jumlah Kredit
FKA 1121	Chemistry Laboratory 1	Asas	October 2017(1)
MPU2452	Community service	Diploma	October 2017 (2)
MPU 3452	Community Service	Bachelor	October 2017 (2)
MPU 3422	Event Management	Bachelor Bachelor	October 2017 (2)
MPU 3452	Community Service	Bachelor	July 2017 (2)
FKA 1121	Chemistry Laboratory 1	Asas	May 2017 (1)
FKA 1121	Chemistry Laboratory 1	Asas	Januari 2017 (1)
MPU 2422	Event management	Diploma	Januari 2017 (2)
MPU 3452	Community Service	Bachelor	Januari 2017 (2)
FKA1121	Chemistry Laboratory 1	Asas	October 2016 (1)
MPU2223	Kemahiran Kepimpinan	Bachelor	September 2016 (3)
MPU 3452	Community Service	Bachelor	Jan 2016 (2)
FKA 1121	Chemistry Laboratory 1	Asas	Jan 2016 (1)
FKA 1121	Chemistry Laboratory 1	Asas	Ogos 2015 (1)
BCS 3124	Fermentation Technology	Bac. Of Biotechnology Industry (Hons.)	Ogos 2015 (4)
	Instrumentation and Research Method	Bac. Of Biotechnology Industry (Hons.)	Jun 2015
FKA 1121	Chemistry Laboratory 1	Asas	May 2015 (1)
FKA 1121	Chemistry Laboratory 1	Asas	January 2015 (1)
BCS 3124	Fermentation Technology	Bac. Of Biotechnology Industry (Hons.)	January 2015 (4)
BBS 3114	Bioreactor and Bioprocessing	Bac. Of Biotechnology Industry (Hons.)	January 2014 (4)
BCS3124	Fermentation		

	Technology		January 2014 (4)
FKA 1121	Chemistry Laboratory 1	Asas	Sept 2014 (1)
BBS 3114	Bioreactor and Bioprocessing	Bac. Of Biotechnology Industry (Hons.)	Dec 2013(4)
BBS 3114	Bioreactor and Bioprocessing	Bac. Of Biotechnology Industry (Hons.)	July 12/13(4)
BBS2244	Industrial Microbiology (Lab)	Bac. Of Biotechnology Industry (Hons.)	Dec 10/11 (4)
BBS 3114	Bioreactor and Bioprocessing (Lab)	Bac. Of Biotechnology Industry (Hons.)	July 10/11 (4)
	Final year project	Bac. Of Biotechnology Industry (Hons.)	Dec 09/10 (4)
BCS 3214	Fermentation Technology	Bac. Of Biotechnology Industry (Hons.)	July 09/10 (4)
BBS 3114	Bioreactor and Bioprocessing	Bac. Of Biotechnology Industry (Hons.)	Dec 08/09 (4)
BCS 3214	Fermentation technology	Bac. Of Biotechnology Industry (Hons.)	July 08/09 (4)
BBS2244	Industrial Microbiology	Bac. Of Biotechnology Industry (Hons.)	Dec 07/08 (4)
BCS 3214	Fermentation technology	Bac. Of Biotechnology Industry (Hons.)	Dec 07/08 (4)
BBS 2244	Industrial Microbiology	Bac. Of Biotechnology Industry (Hons.)	July 07/08 (4)
BCS 3214	Fermentation Technology	Bac. Of Biotechnology Industry (Hons.)	July 07/08
BBD 2224	Principles of Industrial Biotechnology	Dip. in Biotechnology	July 07/08
BBD 2224	Principles of Industrial Biotechnology	Dip. in Biotechnology	Dec 06/07
BBS 2244	Industrial Microbiology	Bac. Of Biotechnology Industry (Hons.)	Dec 06/07
BCS 3214	Fermentation technology	Bac. Of Biotechnology Industry (Hons.)	Dec 06/07
BBD 2224	Principles of Industrial Biotechnology	Bac. Of Biotechnology Industry (Hons.)	July 06/07
BBS 2244	Industrial Microbiology	Bac. Of Biotechnology Industry (Hons.)	July 06/07
BCS 3214	Fermentation technology	Bac. Of Biotechnology Industry (Hons.)	July 06/07
BBS2244	Industrial Microbiology	Bac. Of Biotechnology Industry (Hons.)	Dec 05/06
BBS 3114	Bioreactor and Bioprocessing	Bac. Of Biotechnology Industry (Hons.)	Ogos 05
BCS 3214	Fermentation Technology	Bac. Of Biotechnology Industry (Hons.)	Ogos 05
BBS2244	Industrial Microbiology	Bac. Of Biotechnology Industry (Hons.)	Dec 04/05
BBD 2224	Principles of Industrial	Dip. in Biotechnology	Dec 04/05

	Biotechnology		
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H (b) Penyelian

Penyelian dan Penilaian Tesis/ Projek Peringkat Doktor Falsafah Ijazah Sarjana Sarjana Muda dan Diploma (yang sudah/sedang diselia)

Penyelian

Bilang an pelajar	Tajuk	Peringkat (Dip./B.Sc./ M.Sc./Ph.D)	Nama Institusi	Tempoh penyelian /Tahun
1	Protein Expression, Purification and Crystallization of <i>Rhodococcus</i> UKMP-5M Phenol hydroxylase Student name: Hasdianty Abdullah	PhD (Biotechnology)	Universiti Selangor (UNISEL)	2017
2	Decolourization and degradation of Coomassie Brilliant Blue Dye by <i>Rhodococcus</i> strain UCC0009 Student name: Shashila Tokiran	Master Sc. (Life Sciences)	Universiti Selangor (UNISEL)	2015-To date
3	Optimization of phenol degradation by <i>Rhodococcus Rhodochrous</i> in submerged fermentation.	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2010
4	Optimization of phenol degradation by <i>Rhodococcus zopfii</i> in submerged fermentation.	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2010
5	Optimization of phenol degradation parameter by	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2010

	<i>Rhodococcus</i> sp. in submerged fermentation.			
6	Optimization of phenol degradation by submerged fermentation using <i>Rhodococcus pyridinivorans</i>	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2010
7	Morphological study and screening of antimicrobial activity of isolated microbe of Paka, Terengganu	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2010
8	Morphological study and antibacterial screening of microbes isolated from soil sample of Terengganu	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2010
9	Morphological study and antibacterial activity of sludge sample from Negeri Sembilan	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2010
10	A review of microorganisms in phenol degradation	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2010
11	Screening for Amylase Producing Microbe and Optimization of Parameter for Amylase production Using Submerged Fermentation	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2009
12	Morphological study and screening of antimicrobial activity for isolated microbe of Selangor.	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2009

13	Morphological study Towards <i>Rhodococcus</i> sp. and antimicrobial screening of isolated microbes of Terengganu.	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2009
14	Determination of antimicrobial activity and optimization of Growth Parameter for <i>Rhodococcus</i> sp.	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2009
15	Morphological study and Antimicrobial Activity Screening of microbes isolated from Soil samples of Perlis	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2009
16	<i>Rhodococcus</i> sp. in Various Application through Four Main Mechanisms: Bidesulphurisation, Bioversion, Biodegradation and Biodelsulphurization. Bachelor thesis, Universiti Industri Selangor, Malaysia.	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2009
17	Morphological study and Screening of Antimicrobial Activity for Isolated Microbes of Perlis.	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2008
18	Determination of Antimicrobial Activity for <i>Staphylococcus Cohnii</i> and Optimization of Growth Parameters.	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2008
19	Determination of Antimicrobial Activity for <i>Bacillus Thuringiensis</i> and Optimization of Parameters for Amylase Production.	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2008
20	Morphological Study towards	Bac.of Biotechnology	Universiti Selangor	2008

	<i>Rhodococcus sp</i> and Antimicrobial Screening of Microbes Isolated from Perak	Industry (Hons.).	(UNISEL)	
21	Morphological Study towards <i>Rhodococcus sp</i> and Antimicrobial Screening for Isolated Microbes of Penang	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2008
22	Determination of Antimicrobial Activity of <i>Promicromonospora Species</i> and Optimization of Parameters for Alpha Amylase Production	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2008
23	Determination of Antimicrobial Activity and Optimization of Parameters for Alpha Amylase Production By <i>Streptomyces sp.</i> In Submerged Fermentation	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2008
24	Determination of antimicrobial activities of <i>Aspergillus sp.</i> isolated from Pulau Jemor and optimization of parameter for α -amylase production	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2007
25	Determination of antimicrobial activities of <i>Penicillium sp.</i> isolated from Pulau Jemor and optimization of parameter for α -amylase production using 2L bioreacto	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2007

26	Production of α -amylase enzyme by fermentation of <i>Saccharomyces cerevisiae</i> using different types of starch as carbon sources	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2006
27	Production of Chitosan from <i>Aspergillus niger</i> using different types of starch as carbon source	Bac.of Biotechnology Industry (Hons.).	Universiti Selangor (UNISEL)	2006

Penilaian

JAWATANKUASA	PERINGKAT	JAWATAN	TAHUN
Pemeriksa kedua kertas peperiksaan akhir untuk program Sarjana Muda Industri Bioteknologi dan Ijazah Sarjana Muda Bioinformatik sesi 1/15/34 Semester Januari 2015	Fakulti Sains dan Bioteknologi	Pemeriksa Pertama dan Kedua	5 Mei 2015
Pembentangan Kertas Kerja Doktor Falsafah Edward Bahar	Fakulti Sains dan Bioteknologi	Pengerusi	26 Mac 2015
Pemeriksa kedua kertas peperiksaan akhir untuk program Sarjana Muda Industri Bioteknologi dan Ijazah Sarjana Muda Bioinformatik sesi 3/12/34	Fakulti Sains dan Bioteknologi	Pemeriksa kedua	16 Mei 2013
Pemeriksa kedua kertas peperiksaan akhir untuk program Sarjana Muda Industri Bioteknologi dan Ijazah Sarjana Muda Bioinformatik sesi 3/12/34	Fakulti Sains dan Bioteknologi	Pemeriksa	18 Disember 2012
Calon Master of Science (Bioteknologi) (Suhaiza Ahmad Jamhor)	UNISEL	Pemeriksa Dalam	3 Ogos 2011
Perlantikan sebagai pemeriksa kedua kertas peperiksaan akhir untuk program Ijazah Sarjana Muda Bioinformatik (Kepujian) bagi sesi Nov	Fakulti	Penilai Kedua	9 Mac 2011

2/2010/2011			
Perlantikan sebagai pemeriksa bagi pembentangan pelajar tahun akhir	Fakulti	Pemeriksa	17 November 2009
Pelantikan sebagai pemeriksa, pengerusi majlis dan penjaga masa bagi pembentangan proposal pelajar tahun akhir	Fakulti	Penilai	14 Julai 2009
Pelantikan sebagai penyelia akademik bagi latihan industri (UPM) sesi 3/2008/2009	Fakulti	Penyelia	30 Jun 2009
Pelantikan sebagai penyelia pelajar tahun akhir sem julai dan Mei 2008/2009 -8 orang	Fakulti	Penyelia	2 April 2009

**BAHAGIAN I: KEGIATAN PENULISAN DAN PENERBITAN, PEMBENTANGAN
KERTAS KERJA**

Penulisan, pembentangan Kertas Kerja dll

Bil.	Tajuk Artikel, Kertas Kerja, dll	Anjuran/Penerbit	Tarikh/Tahun
1.	<i>Rhodococcus</i> : A Specialist in Treating Methyl Red-Containing Wastewater, 3rd International Conference on Molecular Biology and Biotechnology 2019 (ICMBB2019)	UCSI Kuala Lumpur	24-25 th April 2019,
2.	Effect of Various Nutrients on the Growth and Degradation of Phenol by <i>Rhodococcus</i> sp., 3rd International Conference on Molecular Biology and Biotechnology 2019 (ICMBB2019)	UCSI Kuala Lumpur	24-25 th April 2019,
3.	Lipid Extraction of Algal Biomass by Triethylammonium Hydrogen Sulphate Ionic Liquid Treatment, 3rd International Conference on Molecular Biology and Biotechnology 2019 (ICMBB2019)	UCSI Kuala Lumpur	24-25 th April 2019,
4.	Screening of Cholesterol Degradation by Local <i>Rhodococcus</i> Isolates, 3rd International Conference on Molecular Biology and Biotechnology 2019 (ICMBB2019)	UCSI Kuala Lumpur	24-25 th April 2019,
5.	Development of a Science	Normal Beijing	28-30 th June

	Forensic Module: The Impact of the Near-Peer Mentoring Approach for STEM Outreach, 2019 Classroom Teaching Research for All Students Conference (CTRAS)	University, China	2019,
6.	Assessing the problem-solving skill among foundation-level students: a STEM case study, 2019 Classroom Teaching Research for All Students Conference (CTRAS)	Normal Beijing University, China	28-30 th June 2019,
7.	STEM Outreach Program: An evaluation on students' perspective towards STEM engagement via school-university mentoring partnership, 2019 Classroom Teaching Research for All Students Conference (CTRAS)	Normal Beijing University, China	28-30 th June 2019,
8.	The perception of pre-university students on STEM, 2019 Classroom Teaching Research for All Students Conference (CTRAS)	Normal Beijing University, China	28-30 th June 2019,
9.	Development of a Toxicology STEM module: the impact of a real-life setting in learning behaviour among foundation-level students, 2019 Classroom Teaching Research for All Students Conference (CTRAS)	Normal Beijing University, China	28-30 th June 2019,
10.	STEM Carnival: Survey of Public Awareness on STEM education, 2019 Classroom Teaching Research for All Students	Normal Beijing University, China	28-30 th June 2019,

	Conference (CTRAS)		
11.	Hazeeq Hazwan Azman, Nor Suhaila Yaacob , Hasdianty Abdullah, Marini Ibahim. Development of a Science Forensic Module: The Impact of the Near-Peer Mentoring Approach for STEM Outreach. In E-Proceeding 1 st National STEM Seminar, Universiti Malaya,	Universiti Malaya	31 July-1 August 2018.
12.	Moohamad Ropaning Sulong, Hasdianty Abdullah , Siti Hairiah Mohtar , Mohd Fadzli Ahmad , Nor Suhaila Yaacob , Marini Ibrahim and Hazeeq Hazwan Azman. Structural Comparison of Gelatinase from Halal (Cattle) and Non-Halal (Wild Boar) Sources. Presented in Scientific Conference World Halal Summit 2018 at Istanbul, Turkey	Scientific Conference World Halal Summit	2018
13.	Nor Suhaila Y. , Hasdianty A., Rosfarizan M., Abdul Latif I. and Ariff, A.B. Molecular Weight Determination Of Phenol-Degrading Enzyme From <i>Rhodococcus</i> UKMP-5M. Proceeding of International conference on Life Sciences Revolution 2016. Past, Present, Future And Beyond "Building Skill And Multidisciplinary Workforce For The Life Sciences Industry Through Stem Education and Convergence Research Synergy"	Institut BioIT Selangor	2016

	<p>29-30 November 2016 Concorde Hotel Shah Alam, Selangor Malaysia</p> <p>(poster presenter)</p>		
14.	<p>Shasila Tokiran, Maegala Nallapan Maniyam, Nor Suhaila Yaacob and Abdul Latif Ibrahim. Effect Of Physical Factors On The Decolorization Of Coomassie Brilliant Blue Dye <i>By Rhodococcus</i> UCC 0009. Proceeding of International conference on Life Sciences Revolution 2016. Past, Present, Future And Beyond “Building Skill And Multidisiplinary Workforce For The Life Sciences Industry Through Stem Education and Convergence Research Synergy” 29-30 November 2016 Concorde Hotel Shah Alam, Selangor Malaysia.</p>	Institut Selangor BioIT	2016
15.	<p>Nor Suhaila Y., Abdul Latif I., Hasdianty A., Rosfarizan M and Ariff A.B. 2016. Optimization Of Operating Variables For Protein Disruption by <i>Rhodococcus</i> UKMP-5M and Phenol Degradation Pathway. Proceeding of International conference on Life Sciences Revolution 2015. Past Present, Future and Beyond on 24-25 November 2015, Concorde Hotel Shah Alam. PP33-35</p>	Unisel Press	2015
16.	<p>Hasdianty Abdullah, Mohd Fadzli Ahmad, Nor Suhaila Yaacob and Motharasan Manogaran. 2015. Reliminary Homolgy Modeling and Structure Analysis of Duffy Antigen Receptor 3D Structure. Proceeding of International conference on Life</p>	Unisel Press	2015

	Sciences Revolution 2015. Past Present, Future and Beyond on 24-25 November 2015, Concorde Hotel Shah Alam. PP43-45		
17.	Shasila Tokiran, Maegala Nallapan Maniyam, Nor Suhaila Yaacob and Abdul Latif Ibrahim. 2015. Screening for potential <i>Rhodococcus</i> strains for biocolorization of coomassie brilliant blue dye. Proceeding of International conference on Life Sciences Revolution 2015. Past Present, Future and Beyond on 24-25 November 2015, Concorde Hotel Shah Alam. PP55-57	Unisel Press	2015
18.	Nor Suhaila, Y. and Muhammad Asmawi, A. Determination of Antimicrobial Activity of <i>Promicromonospora Species</i> and Optimization of Parameters for Alpha Amylase Production. Monash Sciences Symposium 2014 on Jun 18 th -19 th , 2014. Monash University Malaysia. (Poster presentation)	Monash University Malaysia. (Poster presentation)	2014
19.	Nor Suhaila, Y. , Hasdianty, A., Fridelina, S., Norazah, M.N., Maegala, N.M. and Abdul Latif, I. Microbes as a source of Enzyme. In Proceeding Seminar on Tropical Bio-resources for Sustainable Bio-Industry, 30 th -31 st October 2013, School of Life Sciences and Technology, Bandung, Indonesia.	Institut Teknologi Bandung	2013
5.	Nadzirah Abu Samah, Hasdianty Abdullah and Nor Suhaila Yaacob . Unisel Malaysia Honoured His Excellency Prof. Dr. Abdel Salam Majali with Honorary Degree Doctor of Science. 6 th May -9 th May 2013 at the 19 th IAS Conference Dhaka, Bangladesh.	Dhaka	2013
6.	Nor Suhaila, Y., Hasdianty, A.,	Fakultas Peternakan	22 April 2013

	Norazah, M.N., Maegala, N.M., Fridelina, S. and Abdul Latif, I. Microbial in Green Chemistry. In Proceeding of Seminar Nasional Pengembangan Sumber Daya Manusia Dan Perekonomian Masyarakat, 22 April 2013, Fakultas Peternakan Universitas Andalas, Padang, Indonesia. (ORAL PRESENTATION)	Universitas Andalas, Padang, Indonesia	
7.	Hasdianty Abdullah, Farah Aula Mohamed Fauzi, Nor Suhaila Yaacob, Norazah Mohammad Nawawi and Abdul Latif Ibrahim. Preliminary Prediction of Lipase 3D Protein Structure and Function in <i>Rhodococcus</i> Nam81 using Bioinformatics Approach. <i>In Proceeding of Seminar Nasional Pengembangan Sumber Daya Manusia Dan Perekonomian Masyarakat</i> , 22 April 2013, Fakultas Peternakan Universitas Andalas, Padang, Indonesia. (ORAL PRESENTATION)	Fakultas Peternakan Universitas Andalas, Padang, Indonesia	22 April 2013
8.	Norazah Mohammad Nawawi, Maegala Nallapan Maniyam, Nadzirah Abu Samah, Nor Suhaila Yaacob, Hasdianty Abdullah, Fridelina Sjahrir, Rozila Alias, Jayesree Nagarajan and Noor Azmahera Ab Ghafar. IAB Women in Science International Program. In Proceeding of Seminar Nasional Pengembangan Sumber Daya Manusia Dan Perekonomian Masyarakat, 22 April 2013, Fakultas Peternakan Universitas Andalas, Padang, Indonesia. (ORAL PRESENTATION)	Fakultas Peternakan Universitas Andalas, Padang, Indonesia	22 April 2013
9.	Norazah Mohammad Nawawi, Maegala Nallapan Maniyam, Nor Suhaila Yaacob and Fridelina Sjahrir. Women in Green Chemistry. In Proceeding of International	Institut Teknologi Bandung	6 – 7 December 2012

	Conference on Women's Health in Science & Engineering (WiSEHealth) 6 – 7 December 2012, Bandung, Indonesia.		
10.	Nor Suhaila Y. , Ramanan, R.N., Rosfarizan, M., Abdul Latif, I and Ariff, A.B. Optimization of parameters for improvements of phenol degradation by <i>Rhodococcus</i> UKMP-5M using Response Surface Methodology. In Compendium of Unisel Research & Publication. Unisel Research Colloquium. 2-3 October 2012 Unisel Shah Alam, Selangor Malaysia. PP 64.	Universiti Selangor	2-3 October 2012
11.	Hasdianty, A., Nor Suhaila, Y., Mohd Fadzli, A., Norazah, M.N. and Abdul Latif, I. 2012. Preliminary Determination of Phenol Hydroxylase 3D Protein Structure from <i>Rhodococcus</i> NAM81 using Bioinformatics Approach (Oral Presentation). In Compendium of UNISEL Research & Publication of UNISEL Research Colloquium 2012. 2-3 October 2012, Shah Alam, Selangor. Pp.65.	Universiti Selangor	2-3 October 2012
12.	Norazah, M.N., Hasdianty, A., Nor Suhaila, Y. , Nagarajan, J. and Abdul Latif, I. Investigation on locally isolated <i>Rhodococcus</i> : A Promising Biocatalyst for Biotechnological Application. In Compendium of Unisel Research & Publication. Unisel Research Colloquium. 2-3 October 2012 Unisel Shah Alam, Selangor Malaysia. PP 63.	Universiti Selangor	2-3 October 2012
13.	Nor Suhaila, Y. , Ariff, A., Rosfarizan, M. and Abdul Latif, I. Effect of Phenol Concentrations on	International Islamic Academy for Life Sciences	7 Mei 2012

	the Growth and Degradation of Phenol by <i>Rhodococcus</i> UKMP-5M. In Proceedings of IAB women in Science International Symposium, 7 May 2012 Concorde Hotel Shah Alam, Selangor Malaysia. PP 75-77.	and Biotechnology (IAB)	
14.	Hasdianty, A., Nor Suhaila, Y., Mohd Fadzli, A., Norazah, M. N. and Abdul Latif, I. 2012. Preliminary 3D Protein Structure Prediction of Phenol Hydroxylase from <i>Rhodococcus</i> NAM81 Using Homology Modeling. In Proceedings of IAB Women in Science International Symposium 2012, 7 May 2012, Shah Alam, Selangor. Pp. 66-68.	International Islamic Academy for Life Sciences and Biotechnology (IAB)	7 Mei 2012
15.	In Search of Knowledge: the IAB and Bio-IT Experience (2012). IAB Publication: Shah Alam. ISBN:978 983 3757 24 4	International Islamic Academy for Life Sciences and Biotechnology (IAB)	2012
16.	Nor Suhaila, Y., Ariff, A., Rosfarizan, M. and Abdul Latif, I. Comparison of Phenol Degradation Performance by <i>Rhodococcus</i> UKMP-5M in Shake Flask and Universal Bottle. In Proceeding of IAB-IAS International Symposium 2010: Knowledge Society for the Innovation Economy, 8-9 December 2010 Shah Alam Convention Centre (SACC), Selangor, Malaysia. PP 31-33.	Selangor State Government, International Islamic Academy for Life Sciences and Biotechnology (IAB)	8-9 Disember 2010
17.	Nor Suhaila, Y., Ariff, A., Rosfarizan, M. and Abdul Latif, I., Ahmad, S.A., Norazah, M.N., and and Shukor, M.Y.A. Optimization of Parameters for Phenol Degradation	World Congress on Engineering	30 June-2 July 2010

	by <i>Rhodococcus</i> in UKM-P in Shake Flask Culture. Lecture notes in Systems Biology and Bioengineering: Proceeding of the World Congress on Engineering 2010, 30 June-2 July 2010, London, U.K., PP 601-604. (ORAL PRESENTATION AND PROCEEDING PUBLICATION)		
18.	Hasdianty, A., Nor Suhaila, Y. and Norazah, M.N. 2011. Bioteknologi Makanan & Penuaan. Penerbitan BioIT, Bil.01:Jul2011.	Institut Bio-IT Selangor	2011
19.	Nor Suhaila Yaacob, Norfarina Muhamad Nor, Latif Ibrahim, Norhatiah Md Lias, Suhaiza Ahmad Jamhor and Hasdianty Abdullah. Determination of Antimicrobial Activity of Aspergillus Species Isolated from Pulau Jemor and Optimization of Parameter for Alpha-Amylase Production. <i>In</i> Proceeding of the UNRI – UKM 5th Universitas Riau - Universiti Kebangsaan Malaysia Seminar, 19-21 August 2008 at FMIPA Universitas Riau, Pekanbaru, Indonesia.	Universitas Riau, Pekanbaru, Indonesia	19 – 21 Ogos 2008
20.	Suhaiza Ahmad Jamhor, Norhatiah Md. Lias, Norazah Mohammad Nawawi, Nor Azlin Mokhtar, Nor Suhaila Yaacob, Hasdianty Abdullah and Abdul Latif Ibrahim. Antibacterial Screening of Marine Bacteria Isolated from Pulau Jemor Using Cross-Streak Method. <i>In</i> Proceeding of the UNRI – UKM 5th Universitas Riau - Universiti Kebangsaan Malaysia Seminar, 19-21 August 2008 at FMIPA Universitas Riau, Pekanbaru, Indonesia.	Universitas Riau, Pekanbaru, Indonesia	19 – 21 Ogos 2008

21.	Norhatiah Md. Lias, Hasdianty Abdullah, Suhaiza Ahmad Jamhor, Nor Suhaila Yaacob , Thamilselvi a/p Muniandy and Abdul Latif Ibrahim. Molecular Identification of Actinobacteria by 16S ribosomal DNA. In Proceeding of the UNRI – UKM 5 th Universitas Riau- Universiti Kebangsaan Malaysia Seminar, 19-21 August 2008 at FMIPA Universitas Riau, Pekanbaru, Indonesia. (Abstract only) PP.571.	Universitas Riau, Pekanbaru, Indonesia	19 – 21 Ogos 2008
22.	Siti Ramlah Ahmad Ali, Nor Suhaila Yaacob , Idris Abu Seman and Mohd Basri Wahid. Oil Palm Cellulose and Lignin Degradation of Different Ganoderma sp. Based on ASTM Standard Rotting Experiment. In: Proceeding of the 2004 MPOB International Conference on Pests and Diseases of Importance to the Oil Palm Industry, Kuala Lumpur, Malaysia.	Malaysian Palm Oil Board (MPOB)	2004
23.	Nor Suhaila Yaacob , Siti Ramlah Ahmad Ali, Idris Abu Seman, Chong Soo Sheong and Shahidan Senafi. Lignocellulolytic Activities of Pathogenic and Non-pathogenic Ganoderma Under Oil Palm. In: Proceeding of the 2003 MPOB International Palm Oil Congress, Selangor, Malaysia. PP. 1007-1019.	Malaysian Palm Oil Board (MPOB)	2003
24.	Nor Suhaila, Y. and A. Ariff. 1999. "Immobilization of <i>clostridium acetobutylicum</i> P262 and NCIB 8052 using polyurethane foam for subsequence used in acetone-butanol-ethanol production", in the proceeding of the 22 nd Microbiology Symposium and JSPS-NRCT/DOST/LIPI/VCC Seminar, 21-24 November, 1999 at Penang Parkroyal Resort, Penang. Joinly organised by University Putra Malaysia, Persatuan Microbiology	Persatuan Microbiology Malaysia	1999

	Malaysia and JSPS. PP. 91-92.		
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High Impact Journal

Bil.	Tajuk Jurnal	Anjuran/Penerbit	Tarikh/Tahun
	Enhanced methylene blue decolourization using banana peel agricultural waste by Rhodococcus strain Ucc 0003 through response surface methodology	Biocatalysis and Agricultural Biotechnology	2020
1.	Nor Suhaila, Y. , Hasdianty, A., Maegala, N.M., Aqlima, A., Hazeeq Hazwan, A., Rosfarizan, M and Ariff, A.B. Biotransformation using resting cells of Rhodococcus UKMP-5M for phenol degradation. Biocatalysis and Agricultural Biotechnology. DOI: 10.1016/j.bcab.2019.101309. August 2019.	Biocatalysis and Agricultural Biotechnology	2019
2	Maegala Nallapan Maniyam, Nor Suhaila Yaacob. , Hazeeq Hazwan Azman, Noor Azmahera Ab Ghaffar and Hasdianty Abdullah. 2018. Immobilized Cells Of Rhodococcus Strain Ucc 0004 As Source Of Green Biocatalyst For Decolourization And Biodegradation Of Methyl Orange Biocatalysis and Agricultural Biotechnology 16, 569-578 (Q2)	Biocatalysis and Agricultural Biotechnology	2018
3.	Nor Suhaila Y. , Hasdianty A., Rosfarizan M. and Abdul Latif I., Ariff A.B. 2017, Partial Purification Of Phenol-Degrading Enzyme From <i>Rhodococcus</i> UKMP-5M. Indian Journal of Fundamental and Applied Life Sciences Vol. 7 (1): 33-38 (ISI-Indexed journal)	Indian Journal of Fundamental and Applied Life Sciences	2017
4.	Nor SuhailaYaacob , Rosfarizan Mohamad ,Siti Aqlima Ahmad , Hasdianty Abdullah ,Abdul Latif Ibrahim and Arbakariya Ariff. 2016. The influence of different modes of bioreactor operation on the efficiency of phenol degradation by Rhodococcus UKMP-5M.	<i>Rend. Fis. Acc.Lincei</i>	2016

	<i>Rend. Fis. Acc.Lincei.</i> 749-760 Impact Factor 2016: 0.693 (Q3) (ISI-Indexed journal)		
5.	Nor Suhaila Y. , Abdul Latif I., Hasdianty A., Rosfarizan M and Ariff A.B. 2016. Optimization Of Operating Variables For Protein Disruption by <i>Rhodococcus</i> UKMP-5M and Phenol Degradation Pathway. India Journal of Fundamental and Applied Life Sciences, Vol 6 (1): 95-100 (ISI-Indexed journal)	Centre for Info Bio Technology	2016
6.	Shasila Tokiran, *Maegala Nallapan Maniyam, Nor Suhaila Yaacob and Abdul Latif Ibrahim. 2016. Decolourization Of Textile Dyes By Malaysian <i>Rhodococcus</i> Strains. India Journal of Fundamental and Applied Life Sciences (ISI-Indexed journal)	Centre for Info Bio Technology	2016
7.	Hasdianty Abdullah, Mohd Fadzli Ahmad, Motharasan Manogaran and Nor Suhaila Yaacob . 2016. Preliminary Homology Modeling and Structure Analysis of Duffy Antigen Receptor 3D Structure. India Journal of Fundamental and Applied Life Sciences, Vol 6 (1): (ISI-Indexed journal)	Centre for Info Bio Technology	2016
8.	Hasdianty Abdullah, Nor Suhaila Yaacob , Mohd Fadzli Ahmad , Farah Aula Mohd Fauzi and Abdul Latif Ibrahim. 2015. Preliminary Prediction of Lipase 3D Protein Structure and Function in <i>Rhodococcus</i> sp. NAM81 using Bioinformatics Approach. Bioremediation Science & Technology Research, , Vol 3(1):11-15. (ISI-Indexed journal)	Hibiscus publisher	2015
9.	Nor Suhaila, Y. , Hasdianty, A., Rosfarizan, M., Abdul Latif, I. and Arbakariya, A. 2014. 3D Protein Structure Prediction of <i>Rhodococcus</i> UKMP-5M Phenol Hydroxylase Using Homology Modeling. Bioremediation Science & Technology Research, Vol.2(1):1-4. (ISI-Indexed journal)	Hibiscus publisher	2014
10.	Nor Suhaila, Y. , Rosfarizan, M, Ahmad, S.A., Abdul Latif, I. and Ariff, A.B. 2013. Nutrients	Triveni Entprises	2013

	and culture conditions requirements for the degradation of phenol by <i>Rhodococcus</i> UKMP-5M. Journal of Environmental Biology 34(3):635-643. Impact Factor 2013: 0.553 (Q3) (ISI-Indexed journal)		
11.	Nor Suhaila, Y. , Ramanan, R.N., Rosfarizan, M., Abdul Latif, I. and Ariff, A.B. 2012. Optimization of parameters for improvement of phenol degradation by <i>Rhodococcus</i> UKMP-5M using response surface methodology. Annals of Microbiology . 63:513-521 Impact Factor 2013: 1.039 (Q3) (ISI-Indexed journal)	Springer	2013

Bil.	Cetakan ISI/ Pangkalan Data Antabangsa	Anjuran/Penerbitan	Tarikh/Tahun
1.	Maegala Nallapan Maniyam, Nor Suhaila Yaacob , Fridelina Sjahrir, Jayasudha Nagarajan, Jayesree Nagarajan, Anthony E. G. Cass, Norazah Mohamad Nawawi, and Abdul Latif Ibrahim, In book: Biodegradation: Properties, Analysis and Performance, Edition: 2016-4th Quarter, Chapter: Rhodococcus UKMP-5M: A Versatile Bioremediation Microorganism.	Publisher: Nova Science Publishers, Editors: Jaime Alvarez, pp.258l	2016
2.	Nor Suhaila Yaacob , Rosfarizan Mohamad, Siti Aqlima Ahmad, Hasdianty Abdullah, Abdul Latif Ibrahim and Arbakariya Bin Ariff. 2016. The influence of different modes of bioreactor operation on the efficiency of phenol degradation by <i>Rhodococcus</i> UKMP-5M. <i>Rend. Fis. Acc. Lincei</i> . 749-760	<i>Rend. Fis. Acc. Lincei</i>	2016
3.	Nor Suhaila Y. , Abdul Latif I., Hasdianty A., Rosfarizan M and Ariff A.B. 2016. Optimization Of Operating	Centre for Info Bio Technology	2016

	<p>Variables For Protein Disruption by <i>Rhodococcus</i> UKMP-5M and Phenol Degradation Pathway. India Journal of Fundamental and Applied Life Sciences, Vol 6 (1): 95-100</p> <p>Index: Google Scholar, ISI (Zoological Record, Index Copernicus, Open J Gate</p>		
4.	<p>Hasdianty Abdullah, Mohd Fadzli Ahmad, Motharasan Manogaran and Nor Suhaila Yaacob. 2015. Preliminary Homolgy Modeling and Structure Analysis of Duffy Antigen Receptor 3D Structure. India Journal of Fundamental and Applied Life Sciences, Vol 6 (1):</p> <p>Index: Google Scholar, ISI (Zoological Record, Index Copernicus, Open J Gate</p>	Centre for Info Bio Technology	2016
5.	<p>Shasila Tokiran, *Maegala Nallapan Maniyam, Nor Suhaila Yaacob and Abdul Latif Ibrahim. 2016. Decolourization Of Textile Dyes by Malaysian <i>Rhodococcus</i> Strains. India Journal of Fundamental and Applied Life Sciences</p> <p>Index :Google Scholar, ISI (Zoological Record), Index Copernicus, Open J Gate</p>	Centre for Info Bio Technology	2016
6.	<p>Hasdianty Abdullah, Nor Suhaila Yaacob, Mohd Fadzli Ahmad , Farah Aula Mohd Fauzi and Abdul Latif Ibrahim. 2015. Preliminary Prediction of Lipase 3D Protein Structure and Function in <i>Rhodococcus</i> sp. NAM81 using Bioinformatics Approach. Bioremediation Science & Technology Research, , Vol 3(1):11-15</p>	Hibiscus Publisher	2015
6.	<p>Nor Suhaila, Y., Hasdianty, A., Rosfarizan, M., Abdul Latif, I. and Arbakariya, A. 2014. 3D Protein Structure Prediction of <i>Rhodococcus</i> UKMP-5M Phenol Hydroxylase Using Homology Modeling. Bioremediation</p>	Hibiscus Publisher	2014

	Science & Technology Research, Vol.2, No. 1-4.		
7.	<p>Nor Suhaila, Y., Rosfarizan, M, Ahmad, S.A., Abdul Latif, I. and Ariff, A.B. 2013. Nutrients and culture conditions requirements for the degradation of phenol by <i>Rhodococcus</i> UKMP-5M. <i>Journal of Environmental Biology</i> 34(3):635-643.</p> <p>Impact Factor 2013: 0.553 (Q3)</p>	Triveni Enterprise	2013
8.	<p>Nor Suhaila, Y., Ramanan, R.N., Rosfarizan, M., Abdul Latif, I. and Ariff, A.B. 2012. Optimization of parameters for improvement of phenol degradation by <i>Rhodococcus</i> UKMP-5M using response surface methodology. <i>Annals of Microbiology</i> . 63:513-521</p> <p>Annals of Microbiology Index : Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, Chemical Abstracts Service (CAS), Google Scholar, CAB International, Academic OneFile, AGRICOLA, Biological Abstracts, BIOSIS, CAB Abstracts, Food Science and Technology Abstracts, Global Health, OCLC, Referativnyi Zhurnal (VINITI), SCImago, Sociedad Iberoamericana de Informacion Cientifica (SIIC) Databases, Summon by ProQuest, Vitis - Viticulture and Enology Abstracts</p> <p>Impact Factor 2013: 1.039 (Q3)</p>	Springer	2013

Bil.	Pembentangan Kertas Kerja	Anjuran/Penerbit	Tarikh/Tahun
1.	<p>Nor Suhaila, Y., Hasdianty, A., Rosfarizan, M¹., Abdul Latif, I. and Ariff, A.B. Molecular Weight Determination Of Phenol-Degrading Enzyme From <i>Rhodococcus</i> UKMP-5M. Proceeding of</p>	Unisel Press	2016

	International conference on Life Sciences Revolution 2016. Past Present, Future and Beyond on 29-30 November 2016, Concorde Hotel Shah Alam. PP36-38		
2.	Shasila Tokiran, Maegala Nallapan Maniyam, Nor Suhaila Yaacob and Abdul Latif Ibrahim. Effect Of Physical Factors On The Decolorization Of Coomassie Brilliant Blue Dye By <i>Rhodococcus</i> UCC 0009. Proceeding of International conference on Life Sciences Revolution 2016. Past Present, Future and Beyond on 29-30 November 2016, Concorde Hotel Shah Alam. PP49-52	Unisel Press	2016
3.	Nor Suhaila Y. , Abdul Latif I., Hasdianty A., Rosfarizan M and Ariff A.B. 2016. Optimization Of Operating Variables For Protein Disruption by <i>Rhodococcus</i> UKMP-5M and Phenol Degradation Pathway. Proceeding of International conference on Life Sciences Revolution 2015. Past Present, Future and Beyond on 24-25 November 2015, Concorde Hotel Shah Alam. PP33-35	Unisel Press	2015
4.	Hasdianty Abdullah, Mohd Fadzli Ahmad, Nor Suhaila Yaacob and Motharasan Manogaran. 2015. Reliminary Homolgy Modeling and Structure Analysis of Duffy Antigen Receptor 3D Structure. Proceeding of International conference on Life Sciences Revolution 2015. Past Present, Future and Beyond on 24-25 November 2015, Concorde Hotel Shah Alam. PP43-45	Unisel Press	2015
5.	Shasila Tokiran, Maegala Nallapan Maniyam, Nor Suhaila Yaacob and Abdul Latif Ibrahim. 2015. Screening for potential <i>Rhodococcus</i> strains for biocolorization of coomassie brilliant blue dye. Proceeding of International conference on Life Sciences Revolution 2015. Past Present, Future and Beyond on 24-25 November 2015, Concorde Hotel Shah Alam. PP55-57	Unisel Press	2015
6.	Nor Suhaila, Y. and Muhammad Asmawi, A. Determination of Antimicrobial Activity of	Monash University Malaysia.	2014

	<i>Promicromonospora</i> Species and Optimization of Parameters for Alpha Amylase Production. Monash Sciences Symposium 2014 on Jun 18 th -19 th , 2014. Monash University Malaysia. (Pembentangan Poster)	(Poster presentation)	
7.	Nor Suhaila, Y. , Hasdianty, A., Fridelina, S., Norazah, M.N., Maegala, N.M. and Abdul Latif, I. Microbes as a source of Enzyme. In Proceeding Seminar on Tropical Bio-resources for Sustainable Bio-Industry, 30 th -31 st October 2013, School of Life Sciences and Technology, Bandung, Indonesia. (Pembentangan Poster)	Institut Teknologi Bandung	2013
8.	Nadzirah, A.S., Hasdianty, A. and Nor Suhaila, Y. Unisel Malaysia Honoured His Excellency Prof. Dr. Abdel Salam Majali with Honorary Degree Doctor of Science. The 19 th Conference of the Islamic World Academy of Sciences on Achieving Socioeconomic Development in the Islamic World Through Science, Technology and Innovation. 5-9 May 2013. Dhaka, Bangladesh.	Dhaka, Bangladesh.	2013
9.	Nor Suhaila, Y., Hasdianty, A., Norazah, M.N., Maegala, N.M., Fridelina, S. and Abdul Latif, I. Microbial in Green Chemistry. In Proceeding of Seminar Nasional Pengembangan Sumber Daya Manusia Dan Perekonomian Masyarakat, 22 April 2013, Fakultas Peternakan Universitas Andalas, Padang, Indonesia. (Pembentangan Lisan)	Fakultas Peternakan Universitas Andalas, Padang, Indonesia	22 April 2013
10.	Nor Suhaila Y. , Ramanan, R.N., Rosfarizan, M., Abdul Latif, I and Ariff, A.B. Optimization of parameters for improvements of phenol degradation by <i>Rhodococcus</i> UKMP-5M using Response Surface Methodology. In Compendium of Unisel Research & Publication. Unisel Research Colloquium. 2-3 October 2012 Unisel Shah Alam, Selangor Malaysia. PP 64. (Pembentangan Lisan)	Universiti Selangor	2-3 October 2012

11.	Nor Suhaila, Y. , Ariff, A., Rosfarizan, M. and Abdul Latif, I. Effect of Phenol Concentrations on the Growth and Degradation of Phenol by <i>Rhodococcus</i> UKMP-5M. In Proceedings of IAB women in Science International Symposium, 7 May 2012 Concorde Hotel Shah Alam, Selangor Malaysia. PP 75-77. (Pembentangan Poster)	International Islamic Academy for Life Sciences and Biotechnology (IAB)	7 Mei 2012
12.	Nor Suhaila, Y. , Ariff, A., Rosfarizan, M. and Abdul Latif, I. Comparison of Phenol Degradation Performance by <i>Rhodococcus</i> UKMP-5M in Shake Flask and Universal Bottle. In Proceeding of IAB-IAS International Symposium 2010: Knowledge Society for the Innovation Economy, 8-9 December 2010 Shah Alam Convention Centre (SACC), Selangor, Malaysia. PP 31-33. (Pembentangan Poster)	Selangor State Government, International Islamic Academy for Life Sciences and Biotechnology (IAB)	8-9 Disember 2010
13.	Nor Suhaila, Y. , Ariff, A., Rosfarizan, M. and Abdul Latif, I., Ahmad, S.A., Norazah, M.N., and and Shukor, M.Y.A. Optimization of Parameters for Phenol Degradation by <i>Rhodococcus</i> in UKM-P in Shake Flask Culture. Lecture notes in Systems Biology and Bioengineering: Proceeding of the World Congress on Engineering 2010, 30 June-2 July 2010, London, U.K., PP 601-604. (Pembentangan Lisan)	World Congress on Engineering	30 June-2 July 2010
14.	Nor Suhaila Yaacob, Norfarina Muhamad Nor, Latif Ibrahim, Norhatiah Md Lias, Suhaiza Ahmad Jamhor and Hasdianty Abdullah. Determination of Antimicrobial Activity of Aspergillus Species Isolated from Pulau Jemor and Optimization of Parameter for Alpha-Amylase Production. <i>In</i> Proceeding of the UNRI – UKM 5th Universitas Riau - Universiti Kebangsaan Malaysia Seminar, 19-21 August 2008 at	Universitas Riau, Pekanbaru, Indonesia	19 – 21 Ogos 2008

	FMIPA Universitas Riau, Pekanbaru, Indonesia. (Pembentangan Poster)		
15.	Nor Suhaila, Y. and A. Ariff. 1999. "Immobilization of clostridium acetobutylicum P262 and NCIB 8052 using polyurethane foam for subsequence used in acetone-butanol-ethanol production", in the proceeding of the 22 nd Microbiology Symposium and JSPS-NRCT/DOST/LIPI/VCC Seminar, 21-24 November, 1999 at Penang Parkroyal Resort, Penang. Jointly organised by University Putra Malaysia, Persatuan Microbiology Malaysia and JSPS. PP. 91-92. (Pembentangan Poster)	Persatuan Microbiology Malaysia	1999

Bil.	Lain-lain (Penerbitan)– <i>Editorial Work</i>	Anjuran/Penerbit	Tarikh/Tahun
1.	Proceeding of International conference on Life Sciences Revolution 2016. Past Present, Future and Beyond: "Building skill and multidisciplinary workforce for the life sciences industry through stem education and convergence research" on 29-30 November 2016, Concorde Hotel Shah Alam.	Unisel	2016
2	Maegala Nallapan Maniyam, Nor Suhaila Yaacob , Fridelina Sjahrir, Jayasudha Nagarajan, Jayesree Nagarajan, Anthony E. G. Cass, Norazah Mohamad Nawawi, and Abdul Latif Ibrahim, In book: Biodegradation: Properties, Analysis and Performance, Edition: 2016-4th Quarter, Chapter: Rhodococcus UKMP-5M: A Versatile Bioremediation Microorganism.	Publisher: Nova Science Publishers, Editors: Jaime Alvarez, pp.258l	2016
3.	Proceeding of the International conference on Life Sciences Revolution 2015. Past Present, Future and Beyond: "Harnessing the Power of Microbes through Convergence of Life Sciences" on 24-25 November 2015, Concorde Hotel Shah Alam.	unisel	2015
4.	In Search of Knowledge: the IAB and Bio-IT Experience. IAB Publication: Shah Alam. ISBN:978 983 3757 24 4.	International Islamic Academy for Life Sciences	2012

	Penulis Bersama	and Biotechnology (IAB)	
5.	Hasdianty, A., Nor Suhaila, Y. and Norazah, M.N. 2011. Bioteknologi Makanan & Penuaan. Penerbitan BioIT, Bil.01:Jul2011.	Institut Bio-IT Selangor	2011

PENYELIDIKAN

Bil.	Tajuk	Tahun	Status	Sumber
1.	Rhodococcus as source of green biocatalyst for the decolorization and biodegradation of methyl orange dye (RM4400)	2017	Active	UNISEL
2.	JICA-JST COSMOS PROJECT. Continuous Operation System for Microalgae Production Optimized for Sustainable Tropical Aquaculture. Optimization and establishment of fractionation and plate incubation for microalgae growth. (Project Leader) RM 1,429,500.00	2016-2020.		JICA Japan
3.	A study of selected enzymes from <i>Rhodococcus</i> and its application in Green Chemistry (RM 241,000)	2009	To Date	Selangor State Government
4.	Building of genomics-led green chemistry for industrial biotechnology. (Penyelidik Bersama) (RM2.93 Juta)	2007 – 2009	Completed	MOSTI-MGI
5.	The sustainable development and utilization of microorganism from Pulau Jemor. (Penyelidik Bersama) (RM359,300)	2005 – 2007	Completed	MOSTI

PERKEMBANGAN PENYELIDIKAN, PENCAPAIAN DAN HASIL

No.	Penyelidikan dan progress	Tarikh siap	Hasil
1	Phenol degradation reserch	2013-2017	Proceeding and journal paper

2	Kinetics and Mechanism of Phenol Degradation by <i>Rhodococcus</i> sp. UKM-P	2013	Journal Paper PhD Thesis
3	Determination of Antimicrobial Activity of <i>Aspergillus</i> Species Isolated from Pulau Jemor and Optimization of Parameter for Alpha-Amylase Production	2007	International conference paper
4	Laboratory Biodegradation of Oil Palm Trunk using Fungi for the Control of <i>Ganoderma</i> sp. and <i>Orytes Rhinoceros</i>	2002-2004	International conference paper
5	Formulation of <i>Bacillus thuringiensis</i> : Optimising Pilot Scale Fed-batch Production and Formulation of Indigenous BT for Biological Control of Bagworm and Nettle Caterpillar	2002-2004	Pilot plant set-up at MPOB Head Office, Bangi, Selangor
6	Measuring of Cellulolytic Activities of <i>Ganoderma</i> spp. using HPLC and Colorimetric Methods.	2002-2004	International conference paper
7	Performance of Solvent (Acetone-Butanol-Ethanol) Fermentation by <i>Clostridium Saccharobutylicum</i> Strain P262 and NCIMB8052 using Free and Immobilized Cells System	2003	Master thesis Conference paper
8	Immobilization of <i>Clostridium acetobutylicum</i> P262 and NCIB8052 using polyurethane foam for subsequence use in solvent (Acetone, Butanol and Ethanol) production	1999	Degree Thesis