1. Personal data:

Name:	Tarek Mohamed Tawfik Mohamed Dishisha
Place of birth :	Giza
Date of birth:	13 – January - 2015
Nationality :	Egyptian
Language :	Arabic and English
General specialization:	Microbiology
Accurate specialization:	Biotechnology
E-mail:	Tarek.Dishisha@pharm.bsu.edu.eg
Personal account:	

2. Scientific qualification:

Degree	Date	General specification	Faculty	Affiliation	Country
.Ph.D	2013	Biotechnology	Engineering	.Lund Univ	Sweden
.M.Sc	2010	Biotechnology	Engineering	Lund Univ	Sweden
.B.Sc	2004	Pharmaceutical Sciences	Pharmacy	Cairo University	Egypt

3. Chronology of Employment:

Job	Academic degree	The start of employment	The end of employment	Affiliation	Country
Lecturer	Ph.D	October 2014		Faculty of Pharmacy, Beni Suef University	Egypt
Demonstrator	.B.Sc	June 2005	October 2014	Faculty of Pharmacy, Beni Suef University	Egypt

4. Courses and workshops:

Name of course	Nature of course/ workshop	place	Year
Bioprocess Technology		Lund	
Bioanalytical Chemistry		Lund	
Chromatographic analysis		Lund	
Food Microbiology		Lund	
Probiotics		Lund	
Enzyme Technology		Lund	
Biotechnology, process and plant design		Lund	
Quality and product safety		Lund	
Metabolic engineering		Lund	
Entrepreneurship in Biotechnology		Lund	

Environmental Biotechnology		Lund	
Separation in Biotechnology		Lund	
Molecular Biotechnology		Lund	
Biochemical reaction engineering		Lund	
Sustainability in Chemistry and Biotechnology		Lund	
Summer school in biotransformation		Lund	
Structural biology		Lund	
Workshop in proteomics		Lund	
DNA and protein microarrays		Lund	
DNA amplification technologies		Lund	
Metabolomics for Microbial Systems Biology		Lund	
Green chemistry		Lund	
Research Ethics		Lund	
Workshop in Schrödinger		Lund	
Gene Technology		Lund	
Methods in Molecular Biology		Lund	
Green Chemistry		Lund	
Structural Bioinformatics		Lund	
Frontiers of science		Lund	
Radiation Safety		Lund	
Environmental issues and hazards in the chemical research laboratory		Lund	

5. The administrative positions:

Job	Academic degree	Start of service	End of service	Place
Manager of computer unit	PhD	December 2014	--	Faculty of Pharmacy, Beni-Suef University

6. The scientific production:

A- Scientific dissertation:-

Scientific dissertation	Title of thesis	Donator university	Faculty / Department	Date	Grade	Specialization
PhD	Microbial Production of Bio-Based Chemicals: A Biorefinery Perspective.	Lund University	Engineering/ Biotechnology	August 2013		Biotechnology
Master	A Bioprocess for Production and Purification of Rifamycin B.	Lund University	Engineering/ Biotechnology	June 2010		Biotechnology

B- Books:-

Book's title	Author/s	Name of publisher	Place of publication	Date	Pages	Authoring/ translation/ revision/ presentation	Accurate specialization

C- Papers:-

Title	Author/s	Name of journal	Publication data		Place of publication	Accurate specialization
			Year	Volume		
Selective oxidation of trimethylolpropane to 2,2-bis(hydroxymethyl) butyric acid using growing cells of *Corynebacterium sp.* ATCC 21245	Sayed M, Dishisha T, Sayed WF, Salem WMA, Temerk HA, Pyo SH	**Journal of Biotechnology**	(2016)		International	Biotechnology
Bio-based 3-hydroxypropionic- and acrylic acid production from biodiesel glycerol via integrated microbial and chemical catalysis	Dishisha T, Pyo SH and Hatti-Kaul R.	**Microbial Cell Factories**	(2015)	14:200	International	Biotechnology
Improved propionic acid production from glycerol: combining cyclic batch and sequential batch fermentations with optimal nutrient composition.	Dishisha T, Ibrahim MHA, Cavero H, Alvarez MT and Hatti-Kaul R.	**Bioresource Technology**	(2015)	176	International	Biotechnology
Semicarbazide-functionalized resin as a new scavenger for *in-situ* recovery of 3-hydroxypropionaldehyde during biotransformation of glycerol by *Lactobacillus reuteri*.	Sardari RRR, Dishisha T, Pyo S-H and Hatti-Kaul R	**Journal of Biotechnology**	(2014)	192	International	Biotechnology
Flux analysis of the *Lactobacillus reuteri* propanediol-utilization pathway for production of 3-hydroxypropionaldehyde, 3-hydroxypropionic acid	Dishisha T[§], Pereyra LP[§], Pyo S-H, Britton RA and Hatti-Kaul R	**Microbial Cell Factories**	(2014)	13:76	International	Biotechnology

Title	Author/s	Name of journal	Publication data		Place of publication	Accurate specialization
			Year	Volume		
and 1,3-propanediol from glycerol.	(§=Equal contribution)					
Biotransformation of glycerol to 3-hydroxypropionaldehyde: improved production by *in situ* complexation with bisulfite in a fed-batch mode and separation on anion exchanger.	Sardari RRR§, Dishisha T§, Pyo S-H and Hatti-Kaul R (§=Equal contribution)	**Journal of Biotechnology**	(2013)	168	International	Biotechnology
Improved production of 3-hydroxypropionaldehyde by complex formation with bisulfite during biotransformation of glycerol.	Sardari RRR§, Dishisha T§, Pyo S-H and Hatti-Kaul R (§=Equal contribution)	**Biotechnology and Bioengineering**	(2013)	110	International	Biotechnology
An economical biorefinery process for propionic acid production from glycerol and potato juice using high cell density fermentation.	Dishisha T, Stahl Å, Lundmark S and Hatti-Kaul R	**Bioresource Technology**	(2013)	135	International	Biotechnology
Batch- and continuous propionic acid production from glycerol using free and immobilized cells of *Propionibacterium acidipropionici*.	Dishisha T, Alvarez MT and Hatti-Kaul R	**Bioresource Technology**	(2012)	118	International	Biotechnology
A new route for the synthesis of methacrylic acid from 2-methyl-1,3-propanediol by integrating biotransformation and catalytic dehydration.	Pyo S-H, Dishisha T, Dayankac S, Gerelsaikhan J and Hatti-Kaul R	**Green Chemistry**	(2012)	14	International	Biotechnology

D- Conferences:-

Research title	Author/s	Conference title	Sponsor	Place	Year	Accurate specialization
Industrial Biotechnology I: beyond traditional techniques for bioprocess engineering.	Dishisha T	In Faculty of Pharmacy Seminars	Faculty of Pharmacy	Beni-Suef, Egypt	2015	Biotechnology
Who Are You? Tarek Dishisha.	Dishisha T	In CALS Joint Seminar	Center of Applied Life Sciences	Lund, Sweden	2014	Biotechnology
High cell density fermentation strategies for production of propionic acid: A biorefinery perspective.	Dishisha T	In Lund University – Hanoi National University – USM workshop	Swedish Research Link	Penang, Malaysia	2013	Biotechnology
Lactobacillus reuteri - A potential biocatalyst for bio-based chemicals.	Dishisha T*, Sardari RRR, Pereyra LP, Pyo S-H and Hatti-Kaul R	In Industrial Biotechnology: Meeting the challenges	VINNOVA, Lund University	Lund, Sweden	2013	Biotechnology
Biorefinery for production of platform chemicals.	Dishisha T	In the 1st International Conference on Advanced Basic and Applied Sciences	Beni-Suef University	Hurghada, Egypt	2012	Biotechnology
Platform chemicals from industrial and agricultural by-products.	Dishisha T	In the workshop - New Trends in Biotechnology	Cairo University	Cairo, Egypt	2010	Biotechnology
Microbial selective oxidation of trimethylolpropane to 2,2-	Sayed M, Dishisha T, Sayed WF, Salem WMA,	In BIOTRANS 2015	European federation of biotechnology	Vienna, Austria	2015	Biotechnology, Biocatalysis

Bis(hydroxymethyl) butyric acid using *Corynebacterium* sp. ATCC 21245	Temrek HM, Pyo SH					
Stabilization of soil particles using urease production bacteria.	Abdel Aleem H*, Dishisha T, Saafan A, Gaber Y.	In Biotechnology for the Emerging Economies	Beni-Suef University	Beni-Suef, Egypt	2015	Biotechnology
Nanoparticles with Immobilized Lysozyme for Antimicrobial Applications.	Abouhmad A, Dishisha T*, Mamo G, Amin MA and Hatti-Kaul R.	In Biotechnology for the Emerging Economies	Beni-Suef University	Beni-Suef, Egypt	2015	Biotechnology
Comparison of wild-type and engineered *Lactobacillus reuteri* for the production of 3-hydroxypropionaldehyde, 3-hydroxypropionic acid and 1,3 propanediol from glycerol.	Pereyra LP, Dishisha T*, Pyo S-H, Britton RA and Hatti-Kaul R.	In Industrial Biotechnology: Meeting the challenges	VINNOVA	Lund, Sweden	2013	Biotechnology
A novel route for methacrylic acid production via combined bio- and chemo-catalysis.	Dishisha T*, Pyo S-H, Dayankac S, Geresalikhan J and Hatti-Kaul R.	In Summer School “Biotransformations 2011”	Achema	Bad Herrenalb, Germany	2011	Biotechnology
Glycerol and potato juice as renewable raw materials for propionic acid production.	Dishisha T*, Ståhl Å, Lundmark S and Hatti-Kaul R.	In 7. Danish Conference on Biotechnology and Molecular Biology: Microbial Communities in Biotechnology, Health and Biomedicine	Danish Biochemistry Society	Vejle, Denmark.	2012	Biotechnology
Bio-propionic acid production from	Dishisha T* and Hatti-	In Industrial Biotechnology – A	FORMAS	Lund, Sweden	201	Biotechnology

glycerol using immobilized cells of *Propionibacterium acidipropionici*.	Kaul R.	Platform for Sustainable Growth in Sweden			0	
On the antimicrobial potential of thermophiles: Production of an antibacterial polypeptide and a siderophore by thermophilic *Geobacillus* sp. Strain ZGt-1.	Alkhalili R*, Dishisha T, Mamo G, Hatti-Kaul R.	Poster Presentation. In III International Conference on Antimicrobial Research - ICAR2014		Madrid, Spain	2014	Biotechnology
Platform Chemicals from Glycerol.	Hatti-Kaul R*, Dishisha T, Sabet-Azad R, Sardari RRR, Linares-Pastén J, Pyo S-H.	In Industrial Biotechnology: Meeting the challenges	VINNOVA, Lund University	Lund, Sweden	2013	Biotechnology
Process technology for immobilized biocatalysts.	Adlercreutz P*, Rehn G, Dishisha T, Sardari RRR, Pereyra LP, Grey C, von Bahr B and Hatti-Kaul R.	Oral presentation. In Industrial Biotechnology: Meeting the challenges	VINNOVA, Lund University	Lund, Sweden	2013	Biotechnology
Metabolic engineering of *Escherichia coli* for the production of 3-hydroxypropionic acid.	Sabet-Azad R*, Sardari RRR, Linares-Pastén J, Dishisha T and Hatti-Kaul R.	Poster presentation. In Industrial Biotechnology: Meeting the challenges	VINNOVA, Lund University	Lund, Sweden	2013	Biotechnology
In situ removal of 3-hydroxypropionaldehyde during biotransformation of	Sardari RRR*, Dishisha T, Pyo S-H and Hatti-Kaul R.	Poster presentation. In Industrial Biotechnology:	VINNOVA, Lund University	Lund, Sweden	2013	Biotechnology

glycerol using a semicarbazide-functionalized resin.		Meeting the challenges.				
Thermophilic *Geobacillus thermoleovorans* strain ZGt-1: Producer of an antimicrobial polypeptide and a siderophore.	Alkhalili R*, Dishisha T, Mamo G and Hatti-Kaul R.	Poster presentation. In Industrial Biotechnology: Meeting the challenges	VINNOVA, Lund University	Lund, Sweden	2013	Biotechnology
Antimicrobial cellulose nanoparticles with immobilized lysozyme.	Abouhmad A*, Dishisha T, Mamo G, Amin MA and Hatti-Kaul R.	Poster presentation. In Industrial Biotechnology: Meeting the challenges (**Best poster award**)	VINNOVA, Lund University	Lund, Sweden	2013	Biotechnology
Biotransformation of glycerol to 3-hydroxypropionaldehyde: improved production by in situ complexation with bisulfite in a fed-batch mode and separation on anion exchanger.	Sardari RRR*, Dishisha T, Pyo S-H and Hatti-Kaul R.	Poster presentation. In the 21st European Biomass Conference and Exhibition. Setting the Course for a Biobased Economy		Copenhagen, Denmark	2013	Biotechnology
Biotransformation of glycerol to 1,3 propanediol by *Lactobacillus reuteri* DSM 20016 in aqueous system.	Amin HM*, Dishisha T, Hashem AM, Ashour MS, Hatti-Kaul R.	Poster presentation. In Biovision Alexandria	Alexandria Bibliotek	Alexandria, Egypt	2012	Biotechnology

H- Researches had been arbitrated (judged):-

Title	Author/s	Name of journal	Publication data		Place	Accurate specialization
			Year	Volume		

G- patents:-

Patent topic	The inventor	The no. of registration	The year of registration	Accurate specialization
Production of Bio-Based 3-Hydroxypropionic- and Acrylic Acid.	Dishisha T*, Pyo S-H and Hatti-Kaul R	US Provisional Application No. 61861442.	(02 August 2013).	Biotechnology
A New Route for the Synthesis of Methacrylic Acid.	Pyo S-H*, Dishisha T and Hatti-Kaul R	US Provisional Application No. 61477258.	(20 April 2011).	Biotechnology

7. Academic experiences:

A- Dissertation supervision:

Title ofdissertation	Degree	place	The Year of registration	The year of permission	Kind of responsibility	Accurate specialization
Cloning, Expression and Kinetic Characterization of Propanol dehydrogenase (PduQ) from *Lactobacillus reuteri* DSM20016	Master	Lund University	2014	2015	Cosupervisor	Biotechnoogy

B- Teached courses:

Course name	Language	Grade	Faculty	University	Accurate specialization
Biotechnology (Autumn 2014)	English	Undergraduate	Pharmacy	BSU	Microbiology
Pathophysiology (Autumn 2014)	English	Undergraduate	Pharmacy	BSU	Microbiology
Biotechnology (Spring 2015)	English	Undergraduate	Pharmacy	BSU	Microbiology
Pathophysiology (Spring 2015)	English	Undergraduate	Pharmacy	BSU	Microbiology
Environamental Biotechnology	English	Postgraduate	Engineering	Lund	Biotechnology
Bioprocess Technology	English	Postgraduate	Engineering	Lund	Biotechnology
Therapeutics of Infectious diseases	English	Postgraduate	Pharmacy	BSU	Microbiology
Biotechnology (Spring 2015)	English	Postgraduate	Pharmacy	BSU	Microbiology
Advanced Topics in Microbiology (Spring 2015)	English	Postgraduate	Pharmacy	BSU	Microbiology
Biotechnology (Autumn 2015)	English	Undergraduate	Pharmacy	BSU	Microbiology

Medical Microbiology (Autumn 2015)	English	Undergraduate	Pharmacy	BSU	Microbiology
Public Health (Autumn 2015)	English	Undergraduate	Pharmacy	BSU	Microbiology
Cell Biology (Autumn 2015)	English	Undergraduate	Pharmacy	BSU	Microbiology
Basic Microbiology and Immunology (Autumn 2015)	English	Undergraduate	Pharmacy	BSU	Microbiology
Fermentation Technology (Autumn 2015)	English	Postgraduate	Postgraduate studies for advanced sciences	BSU	Biotechnology

C- Courses and workshops that had been teached:

Name	Axis name	Place	Year

D- Seminar and meetings: participation without work paper:

Job	Academic degree	Start/ end	Place

8. Practical experience:

A- Membership in scientific assembly:

Assembly name	place	Participation year

9. Projects, Awards and Prizes:

A- Funded researches and projects:

Title	Author/s	Name of journal	Publication data		Accurate specialization	Fund value
			Year	Volume		

B- Prizes:

Name of the prize	Type	Year	Value

C- Grants:

The grant	Place	Year	Aim
SIDA	*Lund, Sweden Cairo, Egypt*	*2007*	*Master Degree*
VINNOVA	*Sweden ,Lund*	*2009*	*Doctoral Degree*
VINNOVA	*Lund, Sweden*	*2012*	*Offshoot project*
Evonik	*Lund, Sweden*	*2015*	*Postdoctoral Studies*