

التاريخ العلمي والوظيفي للأستاذ الدكتور رضا حلمي أحمد سمور



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1. Education

A. Scientifics Degrees

1. **Ph D in Chemotaxonomy**, 1985, the title of the thesis is:” The Use Protein Characters in the Taxonomy of Peas and Beans”. A joint supervision between Tanta University – Egypt and Durham University-England.
2. **M Sc in Plant Physiology**, 1981; the title of the thesis is:” Effect of salinity, some metabolites and Growth Regulators on Growth and Chemical Composition of *Hordeum vulgare* L.”, Tanta University.
3. **B Sc in Botany**, Jun 1975, with Grade “Very Good”. Botany Department, Faculty of Science, Tanta University, Tanta, Egypt.

B. Training Courses

1. Application of Cellular and Molecular Techniques to Plant Germplasm. - A training program held in *Lausanne University*, LAUSANNE, Switzerland, -July 1990.
2. A training Course in Electron Microscopy (Techniques & Interpretation).- A training course held in *Alexandria University*, *Alexandria*, EGYPT, December 1987.
3. A training course on: “Plant Taxonomy”. Botany Department, Ein Shams University, 15-17/6/2004, (I was invited as speaker in this course).
4. A training Course on: “General Health and Nutrition”, Training center and Community service, Teachers college- El-Jouf, Saudi Arabia-21/1422 h, (I was the organizer of this course).

2. Career Experience

A. Academic Appointments

1. Professor of Molecular Systematics and Molecular Biology, Botany & Microbiology Department, College of Science, King Saud University, Riyadh, Saudi Arabia, 2012- up to now.

2. Professor of Molecular Systematics and Molecular Biology, Botany Department, Tanta University, Tanta, Egypt- 2012.
3. Professor of Molecular Systematics, Science Department, College of Teachers, El-Jouf, Saudi Arabia (1995-2002).
4. Assistant Professor of Molecular Systematics, Science Department, College of Teachers, El-Jouf, Saudi Arabia (1992-1995).
5. Assistant Professor of Molecular Systematics, Botany Department, Faculty of Science, Tanta University, Tanta, Egypt, (1990-1992).
6. Lecturer of Molecular Systematics, Botany department, Faculty of Science, Tanta University (1985-1990).
7. Assistant lecturer, Botany Department, Faculty of Science, Tanta University (1981-1985).
8. Demonstrator, Botany department, Faculty of Science, Tanta University, Tanta (1976-1980).

B. Professional appointments

1. Trainer at the deanship of skills development, King Saud University
2. Consultant for quality and development, College of Science, King Saudi University, Saudi Arabia, from 15/9/2012-upto now.
3. Trainer at the training and community service Unit, College of science, 1441H.
4. Head of strategic Unit, College of Science, 1440H.
5. Collaborator Consultant at the Vice deanship of development and quality, King Saudi University, Saudi Arabia, academic year 1436/1437H.
6. Director of Quality Assurance Unit, Faculty of Science, Tanta University (27/12/2009- 14/9/2012).
7. Advisor of the Microanalysis Unit, Tanta University, September, 2007- 14/9/2012.
8. Director of the Central Laboratory, Tanta University, June 2008 – 14/9/2012.
9. Head of Science Department, College of Teachers, El-Jouf, Saudi Arabia (1998-2002).
10. Vice President of Center of Educational research, College of Teachers, El-Jouf, Saudi Arabia (1996-1997).
11. Head of the quality assurance team of Botany Department, 2006 up to now.

12.Executive head of learning and teaching opportunities in Quality Assurance Unit in the Faculty of Science, Tanta University...

3. Teaching and learning Activities

A. Teaching & Learning Activities (Courses I Taught)

1. Undergraduate

General Botany, Morphogenesis, Plant taxonomy, Genetics, Genetic Engineering, Immunology, Cell biology and genetics, and Plant Molecular Biology, Enzymology, Molecular Ecology.

2. Postgraduate

Differentiation and Gene expression, Principle of Genetic engineering, advanced genetics, Molecular Biology, Bio-Systematic, Protein Biochemistry, Instruments.

5. Higher studies and Scientific Research Activities

A. Supervision of PH D & M Sc Theses

Supervised theses: 27 M Sc & Ph D theses

B. Reviewing

1. Theses

National theses

- 1.*In vitro* selection and molecular characterization of drought tolerant flax (*Linum usitatissimum* L.) cell lines (M Sc- RS TWFIK -2009).
- 2.Isolation and Characterization of Drought – Related Gene (s) from Wild *Vicia* Species (M Sc- MM Faheem -2009).
- 3.Chemical and Molecular Evaluation of New High Quality Lines of Fragrant Rice Bred by Anther Culture. L (M Sc-RSM Nofal-2009).
- 4.Inheritance of Resistance to Losse Smut *Ustilago tritici* of Wheat (M Sc- ESY El-Refaay-2009).
- 5.Regulators of Oxidative Stress Signaling in Plants (Reviewing for Promotion to Lecturer D-NM Sewelam-2009).

6. Chemical and Molecular Evaluation of New High Quality Lines of Fragrant Rice Bred by Anther Culture. L (M Sc-RSM Nofal-2009).
7. Phenetic relationships of some selected species of the genus *Lotus*. L (M Sc-A. S. Haider).
8. Cytological and biochemical study on some *Amaranthus* L. (M Sc-S. A. Abd Alla, 1993).
9. Electrophoretic and biochemical studies on oil seed proteins (M Sc-A. M. Abasary).
10. Effect of salt and water stresses on growth and some metabolites in *Glycine max*. (M Sc-F. Abd El-Aziem).
11. Carbohydrate accumulation and enzymatic activities in several sugar-beet cultivars. (M Sc-E. Makled)
12. Genetic diversity of and molecular markers associated with *Sclerotium cepivorum* causing white rot on onion. (M Sc-R. A. I. Al-Hazzim).
13. Genetic changes in some plant pathogenic fungi in response to the repeated applications of fungicides (M Sc-E. Abd El-Rashed Elagamy).
14. Cytological studies in the genus *Plantago* L. (PH. D - S. F. Badr).
15. Study on gene action in some legumes (PH. D - A. S. Haider).
16. Biochemical studies on some Mushrooms in Egypt (PH. D-S. M. W. Assawah).
17. Genetic diversity of some *Medicago* species in the western Mediterranean region of Egypt. (PH. D-M. A. karam). (Alexandria University)
18. Genetic analysis of resistance to loose smut and an associated antigenic marker in wheat (M Sc-M. E. M. El-Sayed)
19. Cytological and molecular characterization for local and exotic accessions of *Lathyrus* spp. (M Sc-W. T. H. El-Salamony)
20. The genomic characterization and genetic improvement of some *Lactuca* spp. (M Sc-M. A. El-Esawi)
21. Taxonomic Relationships of Some members of labiatae in Egypt. M.Sc Thesis, Botany Department, Faculty of Science, Benha University. July 2005.

22. Molecular Taxonomic Studies on some wild and cultivated Taxa in Egypt, M. Sc Thesis, Faculty of science, Ain Shams Universit, April 2003, Molecular Taxonomy.
23. Taxonomic Affinities among Egyptian Species of *Melilotus* Using Morphometric Method and Genetic markers, M.Sc. Thesis, Botany Department, Faculty of Science, Fayoum University, April 2005, Genetics
24. Socioeconomic Rehabilitation of Degraded Arid Ecosystems of Egypt, M.Sc. Thesis, Environmental Sciences Department, Faculty of Science, Alexandria University, April 2004, Population Genetics.
25. Genetic diversity of *Brassica rapa* the progenitor of oil seed Rape (*Brassica napus*), M Sc-Botany Dept. Fac. Sci. El-Fayoum University, April 2008, Genetics.

International theses

1. PH D Thesis of Mr Tejas Sadanand Kulkarani, University of Pune, Department of Biochemistry, Gakhind Road, Pune- 411-007 (India).
2. PH D Thesis of Mr Ahmad Basha Kolar, Jamal Mohamed College, P.G and Research Department, Race Course Road, Khajanagar, Tiruch irappalli- 620 020, (India).
3. PH D Thesis of Mr Vivekananda College, P.G and Research Department , Race Course Road, Khajanagar, Tiruch irappalli- 620 020, (India).
4. PH D Thesis of Dr D. Siva Prasad entitled: “Studies on Trypsin Inhibitor from *Achyranthes aspera* (Aati) Seeds Including Insecticidal and Antimicrobial Properties”. Department of Biochemistry, College of Science and Technology, Andhra University Visakhapatnam- 530003.

Reviewing Scientific Projects

1. Reviewer for STDF Projects
2. Reviewer for University Projects Funded from The Research Fund for two consecutive cycles (2007 & 2008).

4. Permanent Committee for Promotion of Assistant Professors and Professors

External member of the Permanent committee for Promotion of Assistant Professors and Professors in botany and Reviewer at this committee for this term and the last term.

C. Membership of Scientific and Technical Committee of National & International Journals

1. A membership of the Editorial Board of the following Journals:

- 1.1 International Journal of Biodiversity and Conservation (IJBC) –
“Associate Editor”.
- 1.2 Asian Journal of Cell Biology
- 1.3 Plant Pathology Journal
- 1.4 American Journal of Plant Physiology
- 1.5 Biotechnology
- 1.6 International Journal of Plant Breeding and Genetics
- 1.7. International Journal of Biotechnology and Molecular Biology

2. A reviewer at the Following Journals

- 2.1 Journal of Agronomy and Crop of Science
- 2.2 Journal of Agricultural Science and Technology
- 2.3 The Egyptian Journal of Experimental Biology
- 2.4 African Journal of Environmental Science and Technology
- 2.5 Pakistan Journal of Biology
- 2.6 Journal of Plant Physiology (USA- 2/4/2007)
- 2.7 3rd International Conference on Biological Sciences, 2004, 2006, 2008.
- 2.8 International Conference for Enhancing Scientific Research New Horizons, 20-21 February 2008, Tanta University, Egypt.
- 2.9 The First & Second International Environmental forum, 2006, 2008.
- 2.10 African Journal of Biochemistry Research (Republic of South Africa)
- 2.11 TACKHOLMA
- 2.12 CATRINA, The International Journal of Environmental Science. Botany Department, Faculty of Science, Suez Canal University, Ismailia, Egypt.

- 2.13. African Journal of Agriculture research
- 2.14. African Journal of Plant Science
- 2.15. International Journal of plant Breeding and genetics
- 2.16. Pakistan journal of biological science
- 2.17. Journal of plant Breeding and Crop science
- 2.18. Trends in Bioinformatics

D. Professional Societies

- 5.1 Egyptian Botanical Society
- 5.2 The Egyptian Society of Genetic Engineering
- 5.3 Botanical Society of America
- 5.4 New York Academy of Science
- 5.5 African Crop Sciences Society; Representative of North Africa.
- 5.6 The Egyptian Society of Experimental Biology, Faculty of Science,
Tanta University.

F. Research and Development Projects

1. Study of the attitudes of Saudi faculty members towards assuming administrative and academic positions: King Saud University as a model” - Last Spring 1440 AH / December 2018 CE.
2. Project for establishing a center for graduates - King Saud University - 2016.
3. Project for studying and developing job opportunities and seeding a culture of initiative for graduates of the College of Science, King Saud University, 1433/1434 AH.
4. Project for developing the central laboratory at Tanta University, Science and Technology Development Fund (STDF).
5. Project for developing the College of Science and qualifying it for academic accreditation, Project Management at the Ministry of Higher Education.
6. A virtual laboratory project for molecular biology, ICTP, at the Ministry of Higher Education.
7. Director of the Virtual Molecular Biology Lab. Project. Awarded from ICTP, Ministry of Higher Education. 2011.
8. Executive Director of the Capacity Building project for Updating of the central laboratory of Tanta University, Awarded from STDF (5000000 LE).

9. Executive Director of Continuous Improvement and Qualification for accreditation project (CIQAP) (8000000 LE).
10. Consultant of the Project entitled "Exploiting cyanobacteria in increasing yield and controlling pathogenic soil Born fungi of some crops to minimize importation and save Environment (2005-2007). Tanta University Grant, Higher Studies and Research.
11. Member the Quality assurance and accreditation Team of the Project entitled "Establishing an Internal Quality Assurance System in Faculty of Science, Tanta University. March 2008 – September 2009.
12. Researcher in the Project Entitled: " Regional Environmental Management of Mediterranean Desert Ecosystems of Northern Egypt (REMDENE)." Alexandria University (1979-1980).
13. Researcher in the Project Entitled: " Systems Analysis of Mediterranean Desert Ecosystems of Northern Egypt (SAMDENE)." Alexandria University (1977-1979).

5. HONORS AND AWARDS

1. Tanta University Encouragement Award in Biology 2010
2. A ward of International Publication in High ranking impact journals, I have been awarded this award six times.
3. Visiting Professor, (8 months Fulbright Award) Purdue University, U.S.A. (Molecular Biology and Genetic Engineering), and 1989-1990.
4. Visiting Professor, (3 months British Council Award) botany Department, Durham University, DH1 3LE, Durham, UK (Molecular biology), 1987.
5. Certificate of thanks and appreciation from the President of the University and Vice President for Environmental Affairs and Community Service for the sincere cooperation and contribution to the university's activities
6. Certificate of Thanks and Appreciation from the President of the University: as a referee in International Journals – 2009.
7. Certificate of thanks and appreciation from the Deanship of Teachers College in Al-Jouf - Kingdom of Saudi Arabia for dedication to work, sincerity and good efforts throughout the work in the college -2002 AD.

8. Acknowledgment on the occasion of the International Teacher's Day: for cooperation and good performance - Activity Committee at Teachers College in Al-Jouf - Kingdom of Saudi Arabia.
9. Thanks and appreciation from the Training and Community Service Center at Teachers College in Al-Jouf, Kingdom of Saudi Arabia, for participating in achieving the center's objectives - Academic year 21/1422 AH
10. Thanks and appreciation from the Deanship of Teachers College in Al-Jouf for active participation in the academic year 21/1422 AH.
11. Thanks and Appreciation from Teachers College in Arar - Kingdom of Saudi Arabia: for supporting fraternal cooperation between Arar college and Teachers College in Al-Jouf., Kingdom of Saudi Arabia.

6. National and International meetings

1. Fulbrighters face Egypt 's Scientific Challenge. The city of Scientific Research and Technology Applications, 7/7/2011.
2. The seventh framework programme (FP7) workshop , Competitive Project Unit, project management Unit, Tanta University, 12/12/2010.
3. The 6th International conference on Biological sciences. 10-11 November,
4. Tanta University, 2010.
5. Fourth Saudi Science Conference, contribution of Science Faculties in the Development Process of KSA, 21-24/3/2010, Taibah University, El-Madinah, Saudi Arabia.
6. The Clinical Applications of Tandem Mass Spectrometry, 1/4/2010, faculty of Pharmacy, Tanta University, Tanta, Egypt.
7. The 3rd International Conference of Genetic Engineering & Biotechnology research Division: Biotechnology for better Life, 3-5/11/2009, National research center, Cairo, Egypt.
8. Workshop on "Industrial water waste and Environmental laws", 6-7/7/2009, The city of Scientific Research and Technology Applications.
9. Youth Meeting 2009, United Nation Environment programme, 27-31/1-2009.
10. Foresight, 29/6-10/7/2009, COMSTECH, Islamabad, Pakistan.
11. The second International Environmental forum: New Horizons for Sustainable Development, Tanta University, 27-29 November, 2008.

12. International Conference for Enhancing Scientific: New horizons- 20-21/2/2008, Tanta University- Egypt.
13. The seventh framework program (FP7) workshop, Competitive Project Unit, project management Unit, Tanta University, 19/11/2007.
14. Information Technology in higher education: Present & future, 6/9/2007, Cairo International Center for conferences. Nasr City, Cairo, Egypt.
15. Pearson Assessments, 2 /5/ 2007, Hotel W Marriot, Cairo, Egypt.
16. The Forth International conference on Biological sciences. 1-2 November,
17. Tanta University, 2006.
18. The First International Environmental forum, Tanta University, 1-3 April, 2006.
19. 7th African Crop Science Conference, Kampala, 5-9 December, 2005.
20. The third International conference on Biological sciences. 28-29 April, Tanta University, 2004.
21. 1st international Conference on Strategy of Egyptian Herbaria, 9 -11 March – CARIO, 2004.
22. The first National Workshop on: Conservation and sustainable use of Medicinal Plants in Arid and semi arid Lands in Egypt, 14/1/2004, Egyptian Environment Affairs Agency, Ministry of State for Environmental Affairs,
23. A visit to discuss the work of Ph. D. Student working under my supervisor and British Supervisor (Prof. D. Boulter) in Biological Science Department Durham University, ENGLAND, June 27-July 6 -1991.
24. The symposium of the Scientific Arabic In heritage, Libya 1990 (In Arabic).
25. Fulbright Senior Scholar Conferences. The 1990 AD: The Decade of the Environment. In Cooperation with: The United State Information Agency and The Council for International Exchange of Scholars. America 18-21 March, 1990.
26. 28th Science Week, Damascus, 5-10/11/1988, Syria, Science Supreme council.
27. Second National Meeting of Chemists, Saudi Arabia, 1987.
28. University performance between administrative obstacles and lack of capabilities - Arab Society for Information Systems: Theme 5 - Supporting laboratories and educational aids in the university 2/10/1992 AD 9-10 2/1992, 2 Sinan Basha St. - Mansheya - Alexandria.

29. A representative of Tanta University in a meeting with the Executive Director of the Qatar Fund for Scientific Research in a meeting with Egyptian officials in the field of higher education and scientific research - to introduce the activities and funding programs of Qatar National Research Fund and how Junior Egyptian researchers benefit from the grants offered by the fund - Academy of Scientific Research - 9/29/2009.
30. The Sixth International Conference entitled: The Liver and Environment "Risks and the Solution" - Faculty of Medicine, Tanta University - 1/9/2009 AD.
31. Workshop entitled: "Strategic Planning" - College of Dentistry - Tanta University, 21-23 / 5/2009 AD.

6. University activities

1. Member of workload committee, Vice dean of academic affairs, college of Science, KSU, 1437/1438H.
2. Member of the committee of the development the practical courses, Department of Botany and Microbiology, college of Science, KSU, 1437/1438H.
3. Member of the Standard two committee of Institutional accreditation, King Saud University, 2016.
4. Member of the Standard one committee of Institutional accreditation, King Saud University, 2016.
5. Member of the coordinating committee of Institutional accreditation, King Saud University, 2016.
6. Member of the committee of studying "ISO 9001-2015" and establish an outlines to be implemented to King Saud University academic and administrative Unites, Vice Deanship of development and quality, King Saud university, Saudi Arabia, 1436/1437H.
7. Member of the committee of "KSU Excellence Model ", Vice Deanship of development and quality, King Saud university, Saudi Arabia, 1436/1437H.
8. Member of the Board of the training center and community service, College of Teachers, El-Jouf, Saudi Arabia (1997-1998).
9. Member of the board of the Plant Gene Bank for Egyptian Deserts. Desert Research center, Ministry of Agriculture and land Reclamation, 9/4/2010- up to 14/9/2012.

10. Member of the delegate that appointed to study all the scientific and research activities of the center of higher studies issued by the decree of the university council dated 30/12/2007, aiming to develop the higher studies and research division of Tanta University.
11. Member of the board of Special units, Environment and Community Affairs Division, Tanta University, Tanta, Egypt- September, 2007- 14/9/2012.
12. An External Member on the Board of Electron Microscopy Unit, Faculty of Medicine, Tanta University. July 2008.
13. Member of faculty council, Faculty of Science, Tanta University, 2010/2011.
14. Member of the Academic Guidance Committee, 2010\2011.
15. Member of the Curricula Committee, 2010\2011.
16. Member of University Committee For Laboratories and Scientific Equipments.- from 1/10/2008.
17. Member of the committee for Library, Faculty of Science, Tanta University, 2002/2003.
18. Member of faculty council, Faculty of Science, Tanta University, 2002/2003.
19. Member of The committee for post - graduate studies, Faculty of Science, Tanta University, 1990-1991.
20. Member of the committee for cultural relationship, Faculty of Science, Tanta University, 1987-1989.
21. Member of the committee for Library, Faculty of Science, Tanta University, - 1986-1987.
22. Member of the committee of the study all scientific and research activities of the Tanta University's Center for Graduate Studies and Research with a view to developing the graduate studies and research sector, 12/30/2007.
23. Member of Student Affairs Committee at Teachers College, Al-Jouf, Kingdom of Saudi Arabia - 2000 / 2001, 2001 / 2002 AD.
24. Member of Disciplinary Committee at Teachers College in Al-Jouf, Kingdom of Saudi Arabia - 2000 / 2001, 2001 / 2002 AD.
25. Member of the Examinations committee at Teachers College in Al-Jouf, Kingdom of Saudi Arabia, 1992 / 1993-1995-2002.
26. Member of the Computer Committee at Teachers College in Al-Jouf, Kingdom of Saudi Arabia - 1997/1998 - 2000/2002 AD

27. Member of the Admission and Registration Committee at Teachers College in Al-Jouf, Kingdom of Saudi Arabia - 1997/1998 - 2000/2002 AD.
28. Member of the committee assigned to implement the decision of Tanta University Council, held on May 27, 2008, regarding the affirmation of that central laboratory is an administration within the university's organizational structure and the development of its activities - 6/22/2008.
29. Chairman of the advisory committee entrusted with the study and report of the most appropriate modern scientific trends of the Central Laboratory - 31/8/2008.
30. Member of the Committee for Community Needs at Tanta University - 5/3/2010 and 5/17/2010.
31. Member of the University Research Projects Committee - 2009 AD.
32. Member of the Personal Interview Committee for Contracts at Teachers College in Al-Jouf - Kingdom of Saudi Arabia. 5/16/1414 AH.

8. Higher education enhancement Activities

A. ICTP

1. Certified Trainer (CT) at ICTP
2. ECDL/ICDL certificate: The International Computer Driving License - (ICDL) / The European Computer Driving License - (ECDL), 2007.
3. E-learning book entitled: "Taxonomy of the Flowering Plants".
4. Microsoft E-content Development Training, 18-22/11/2006, Microsoft Egyptian Education Initiative.

C. Faculty leader's development (FLDP)

1. Associate trainer at the National Center for Faculty and Leadership Development, in "Scientific Publication" and "How to write Competitive Research Project"
2. A training Course on: "Training of Trainers (TOT1)-Preliminary Level. NCFLD-April 2008.
3. A training Course on: "Training of Trainers (TOT2)-Supplementary Level (Training in Scientific research). NCFLD-July 2008.

- 4.A Training Course on: “Microsoft E-Content Development Training”. Microsoft- Egypt Education Initiative, 18-22/11/2006.
- 5.A training Course on: “Decision Making and solving Problems”, 27-29/9/2004, Development Center, FLD Division, Tanta University-Tanta - Egypt .
- 6.A training Course on: “Time management and work pressures”, 8-10/ 11/2004, Development Center, FLD Division, Tanta University-Tanta - Egypt
- 7.A training Course on: “University and Community”.16-17/10/2004,
- 8.Development Center, FLD Division, Tanta University-Tanta - Egypt .
- 9.A training Course on: “University Law”, 21-22/9/2004, Development
- 10.Center, FLD Division, Tanta University-Tanta - Egypt.
- 11.These workshops Held in the Center of Development of Tanta University,
- 12.in the medical campus.

C. Quality assurance and accreditation

Training

- 1.A training Course in:” ILO’s and Curricula Mapping for the Institutes of Higher Education, National Authority for Quality Assurance & Accreditation of Education in 5-9/6/2011.
- 2.A training Course in:” External Reviewer for Institutions of Higher education” National Authority for Quality Assurance & Accreditation of Education, in 20-24/3/2011
- 3.A training Course in:” Institutional self-evaluation for Institutions of Higher education” National Authority for Quality Assurance & Accreditation of Education, in 20-24/2/2011.
- 4.Director of the Quality Assurance Unit, Faculty of Science, Tanta University, Tanta, Egypt, 27/12/2009.
- 5.Executive Director of Continuous Improvement and Qualification for accreditation project (CIQAP), 1/3/2010.
- 6.Foresight, 29/6-10/7/2009, COMSTECH, Islamabad, Pakistan.
- 7.Quality assurance and accreditation in the higher Education: The Road to the future. The national committee for Quality assurance and accreditation, January 16, 2007.

8. Workshop on “Strategic Planning for the University” – In Faculty of Dentistry from 21-23 June- 2009.

Reviewing

1. Self-study of the Botany Program, College of Science, King Saudi University
2. SSRI, Majmaah University, 2016.
3. Self-study of the Microbiology program, College of Science, KSU.
4. Self-study of the Biochemistry, Faculty of Science, King Saudi University
5. Self-study of the Biology Program, College of Science, Taif University
6. Self-study of the Zoology Program, College of Science, Taif University
7. Self-study of the Botany Program, College of Science, Taif University
8. Self-study of the microbiology Program, College of Science, Taif University