

# Prof. Khaled Abdel-Ghaffar

## Minister of Higher Education and Scientific Research



### Contact

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### Languages

Arabic – Mother Tongue

English – Excellent

French – Basic

### Hobbies

- Sports

### Education

<b>1992 - 1995</b>	Doctor of Philosophy in Dental Surgery (Ph.D.) – University of Texas, Houston (USA) / Cairo University
<b>1994</b>	American Board Certificate
<b>1989</b>	Master's degree in dental surgery (M.S)
<b>1979 – 1984</b>	Faculty of Oral and Dental Medicine, Cairo University, D.D. S
<b>1976 - 1979</b>	High School (English School), (G.S.C), Cairo, Egypt

### Work Experience

<b>2017 – To date</b>	Minister of Higher Education and Scientific Research - Egypt
<b>2016 - 2017</b>	Vice President of Ain Shams University for Postgraduate Study and Research
<b>2014 – 2016</b>	Dean of Faculty of Dentistry Ain Shams University - Egypt
<b>2005 – 2014</b>	Chairman of Oral Medicine, Oral Diagnosis, Oral Radiology and Periodontology Ain-Shams University - Egypt
<b>2012 – 2014</b>	Clinical Professor, Medical College of Georgia, Faculty of Dentistry - USA
<b>2010</b>	Secretary-General of the National Dental Committee – Egypt
<b>2008 - 2010</b>	Board member of the National Evaluation Committee of Professors
<b>2006 – 2008</b>	Vice President of the International Association for Dental Research IADR (Egypt)
<b>1999</b>	Chairman of Cleopatra Dental Center – Egypt
<b>1992 – 1995</b>	Visiting Scholar of Periodontics, University of Texas, Health Science Center at

### Academic Experience

<b>2005 – 2017</b>	Professor and Chairman of Oral Medicine and Periodontology, Ain Shams University
<b>2000 – 2005</b>	Associate Professor of Oral Medicine and Periodontology, Ain-Shams University
<b>1995 – 2000</b>	Lecturer of Oral Medicine, Oral Diagnosis and Periodontology, Cairo University
<b>1992 – 1995</b>	Visiting scholar and postgraduate student, Department of Periodontics University of Texas, Dental Branch, Houston, Texas, USA
-	Assistant lecturer in undergraduate and graduate Periodontics, Oral Medicine and Oral Diagnosis, Faculty of Dentistry, Cairo University
-	Clinical instructor in undergraduate Periodontics, Faculty of Oral and Dental Medicine, Cairo University
-	Course Director for dental implant courses, periodontal care and regeneration
-	Training dental hygienists
-	Training and teaching dental therapists
<b>1985 – To date</b>	Practicing General Dentistry since 1985

# Detailed Experiences

<b>2017 – To date</b>	<b>Minister of Higher Education and Scientific Research, Egypt</b>
	<b>In Higher Education Field</b>
	<ul style="list-style-type: none"> <li>▪ Issuing the International Branch Campus's (IBCs) Law which allows the international universities to establish their branches in Egypt</li> <li>▪ Three international universities (Coventry University – Hertfordshire University – Prince Edward Island University) have been constructed in Egypt after enacting the (IBCs) Law and the study has been started in 2019/2020</li> <li>▪ Initiated 3 Technical Universities in Egypt (New Cairo – Kuesna – Beni Swef) which help to boost the technical education process in Egypt</li> <li>▪ Establishing 4 new universities in different locations all over Egypt (Al-Galala University, Al-Alamen University, New Mansoura University, and King Salman University with its 3 branches).</li> <li>▪ 5 Memorandums of Understanding have signed between the mentioned universities and 5 international bodies (Arizona State University – The University of Louisville – University of Hiroshima – Vienna School of Medicine – Queens Margret University) for cooperation in the higher education field</li> <li>▪ Re-structuring Zewail City for Science and Technology which includes two Institutes of Nanotechnology and Medical Sciences</li> <li>▪ Issuing a law for organizing work in university's hospitals</li> <li>▪ A visionary and sensitizing role has been played in defining the National STI Strategy in Egypt, in lined with Egypt Vision 2030 by many different means, like applying the Digital Transformation System on Egyptian universities, raising the efficiency of universities' infrastructure, and turning them into smart ones</li> <li>▪ Initiating Egypt's strategy for artificial intelligence</li> <li>▪ The establishment of "Egypt Home" in the International University City in Paris which aims to serve the Egyptian students studying in France by providing them the appropriate housing, beside its role in being a meeting point between the Egyptian and French culture</li> <li>▪ Initiating the Global Forum for Higher Education and Scientific Research in Egypt in April 2019</li> <li>▪ Representing Egypt by delivering Egypt's speech at different sessions of the UNESCO Executive Board in Paris</li> <li>▪ Headed the 17<sup>th</sup> "Arab higher education &amp; Scientific Research leaders conference" which hosted by Egypt entitled (Artificial Intelligence and Education)</li> </ul>
	<b>In Scientific Research Field</b>
<ul style="list-style-type: none"> <li>▪ Issuing a law for the National Gifted Talent Project to support innovators and outstanding individuals</li> <li>▪ Issuing a law for establishing the first Egyptian space agency</li> </ul>	

- Issuing a law of Science, technology and innovation incentives
- Hosted the African Space Agency in Egypt
- Hosted the 3<sup>rd</sup> edition of Africa STI Forum in Egypt
- Establishing the Science and Technology Innovation Funding Agency (STIFA)

## Honors and Recognitions

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|-------------|---------------------------------------------------------------------------------------|
| <b>2019</b> | Honorary Fellowship from the Royal College of Physicians and Surgeons of Glasgow      |
| <b>2018</b> | Honorary Doctorate from University of Hiroshima, Japan                                |
| <b>2015</b> | Academic Associate Fellow of the American Academy of Implant Dentistry                |
| <b>2001</b> | Distinguished National Medical Award Winner, National Academy for Scientific Research |
| <b>1999</b> | Ranked 1st for best research among Ain-Shams University                               |
| <b>1994</b> | Ranked second for best research, Euro-Perio, Paris, France                            |
| <b>1994</b> | Unilever Travel Award Winner IADR Best research, USA                                  |
| <b>1994</b> | IADR Edward Hatton Award for Best Research – Seattle Washington, USA                  |

## Research Grants

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| <b>2010 – 2013</b> | Established a research facility at the Queen Dental Centre, Doha supported by Qatar National Research Foundation as I serve as Co-PI for the operating grant of a total of USD 1,042,545.00                      |
|                    | National Research Fund (QNRF): Using Pluripotent gingival cells and ultrasound for dental/periodontal tissue engineering. (USD \$1,042,545.00) (El-Bialy, T. PI) (Mamdouh Farid and Khaled Abdel Ghaffar Co-PIs) |

## Scientific Organizations and Societies

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- Member of American Academy of Periodontology
- International Academy of Periodontology
- American Academy of Implant Dentistry
- American Academy of Oral Medicine
- International Association of Dental Research
- American Dental Association
- Egyptian Clinical Dental Society
- Egyptian Implantology Dental Association

- Egyptian Dental Association

## International Participations

Region	Country	Date	Event
Europe	United Kingdom	November 2019	Granted with an Honorary Fellowship from the Royal College of Physicians and Surgeons of Glasgow
		January 2018	<ul style="list-style-type: none"> <li>- Participated in the Global Education Forum in the main session by presenting the report "Development in the World"</li> <li>- Signed an MOU between Egypt and the UK to establish international branches of British universities in Egypt</li> </ul>
	France	October 2019	Delivered Egypt's Speech at the 207 <sup>th</sup> session of UNESCO's Executive Board in Paris
		April 2019	Delivered Egypt's Speech at the 206 <sup>th</sup> session of UNESCO's Executive Board in Paris
		April 2018	Delivered Egypt's Speech at the 204 <sup>th</sup> session of UNESCO's Executive Board in Paris
		May 2018	Participated in the Bologna Policy Forum in Paris
		October 2017	Delivered Egypt's Speech at the 202 <sup>nd</sup> session of UNESCO's Executive Board in Paris
		April 2017	Delivered Egypt's Speech at the 201 <sup>st</sup> session of UNESCO's Executive Board in Paris
	Austria	December 2018	Participated and delivered a speech in the high-level Africa Forum Europe "Cooperation with the Digital Age", entitled (The universality of higher education is not a loss of competence but rather integration towards supporting Austrian-Egyptian relations in the field of higher education and scientific research)
	Germany	October 2018	<p>Visited Germany among an official delegation headed by Mr. President Abdel-Fattah El-Sisi, President of Egypt, and signed the following agreements during the visit:</p> <ul style="list-style-type: none"> <li>- Cooperation Agreement aimed to establish the German International University (GIU) in the new administrative capital in Egypt</li> <li>- Signing a joint statement of intentions between Egypt and Germany in the field of higher education and scientific research</li> </ul>

Region	Country	Date	Event
		July 2017	Attended the 10th anniversary of the scientific cooperation between Egypt and Germany
		September 2018	<ul style="list-style-type: none"> <li>- Attended a conference organized by the University of Salamanca entitled “University Traditions in the Changing World” in the presence of the King and Queen of Spain on the occasion of the 30 years since the signing of the University Tradition Document and encouragement Links between European universities</li> <li>- Giving a speech entitled “How Universities Interact with Challenges” during the conference</li> </ul>
	Italy	September 2018	Participation in the international conference organized by University of Naples Federico II
	Slovenia	April 2017	Represented the countries of the southern Mediterranean basin in partnership with the Slovenian Minister of Higher Education and Scientific Research
<b>North America</b>	United States of America	May 2018	Participated in the Global Symposium on the Role of Micro-, Small- and Medium-Enterprises (MSMEs)
		February 2020	<ul style="list-style-type: none"> <li>- An MOU has been signed between the Egyptian Ministry of Higher Education and Scientific Research (MOHESR), and Arizona State University, Cintana Education to initiate a program to manage universities in Egypt</li> <li>- An MOU has been signed between MOHESR and The Texas International Education Consortium (TIEC) to promote collaborative research activities between the two countries</li> <li>- An MOU has been signed between MOHESR and the University of Louisville to develop mutually beneficial projects between the two countries</li> </ul>
<b>Asia</b>	Japan	August 2019	<p>Participated in the Africa-Japan Ministerial Dialogue Meeting on STI for SDGs with 5 interventions:</p> <ol style="list-style-type: none"> <li>1. Human resources development and capacity building</li> <li>2. Artificial Intelligence in Egypt and beyond</li> <li>3. Strengthen cooperation in Science, Technology, and Innovation between Africa and Japan</li> <li>4. Africa Space Forum – Space Inclusion by Applying Space Technology</li> <li>5. Abe Initiative Bridging Africa and Japan through ABE Initiative – Promoting Japanese Companies’</li> </ol>

Region	Country	Date	Event
		October 2018	<ul style="list-style-type: none"> <li>- Participated at the 15th Annual Meeting of the Science and Technology in Society forum in Kyoto, Japan by presented Egypt's vision in the field of higher education and scientific research in the main opening session</li> <li>- Granted with an honorary doctorate from the University of Hiroshima</li> </ul>
	China	May 2019	<p>Participated in the UNESCO Conference on Artificial Intelligence and Education in Beijing with a presentation and 2 panel sessions:</p> <ul style="list-style-type: none"> <li>- The presentation title is "The First Faculty of AI and AI Academy in Arab Region"</li> <li>- Panel 1: "Reducing the AI Divide in Education with Africa Priority"</li> <li>- Panel 2: "Promoting AI Capacities in Africa"</li> </ul>
	Kazakhstan	September 2017	Participated and delivered an official speech on behalf of Mr. President Abdel Fattah El-Sisi, President of Egypt, in the 1 <sup>st</sup> edition of the Islamic Cooperation for Science and Technology Summit in Astana
<b>Gulf Countries</b>	Saudi Arabia	February 2020	Attended the 11 <sup>th</sup> Gulf Conference and Exhibition for Education in Jeddah
		September 2019	A meeting of the Saudi Minister of Higher Education was held during the visit to discuss ways of cooperation between the two countries in higher education
		August 2017	A meeting of the Saudi Minister of Higher Education was held during the visit to discuss ways of cooperation between the two countries in higher education
	Oman	September 2019	<ul style="list-style-type: none"> <li>- Participated in the Technology and Innovation in Education Forum for the Middle East and North Africa 2019</li> <li>- An executive program for cooperation between Egypt and Oman for the years (2018-2020) has been signed during the visit</li> </ul>
		February 2018	A potential cooperation between the two countries (Egypt and Oman) in the field of higher education and scientific research has discussed during the visit
	United Arab Emirates	December 2018	Participated in the 5 <sup>th</sup> session of the (Knowledge Summit 2018: Youth and the Future of the Knowledge Economy), and presented "The strategic vision for the development of education in Egypt"

Region	Country	Date	Event
Africa	Ethiopia	February 2019	Visited Addis-Ababa among an official delegation headed by Mr. President Abdel-Fattah El-Sisi, President of Egypt to attend "the 32 <sup>nd</sup> regular Summit of the African Union"
		January 2018	Visited Addis-Ababa among an official delegation headed by Mr. President Abdel-Fattah El-Sisi, President of Egypt to attend the first meeting of the Committee of Heads of State and Ten Governments concerned with education, science, and technology on the sidelines of the thirtieth session of the African Summit
	Malawi	November 2018	Attended and delivered a speech at the ministerial meeting and the summit meeting of the Ten Committee on Science and Technology in Africa on behalf of Mr. President Abdel-Fattah El-Sisi, President of Egypt
	Sudan	October 2018	An executive program of the cooperation agreement in the field of education and scientific research between Egypt and Sudan has been signed during the visit

## Publications

- Lloyed DR, MO Wasfy, K. Atef, G. Minah and W. Falkler: Microbiological profile of advanced periodontal lesions in Egyptian J Dent Res, 1991
- Cutler CW, Wasfy MO, Ghaffar K, Hosni M, Lloyed DR: Impaired bactericidal activity of PMN from two brothers with necrotizing ulcerative gingivo-periodontitis. J Periodont; 64: 357-363, 1994
- Ghaffar KA, Wasfy MO, Cutler CW: Impaired killing of *Prevotella intermedia* by polymorphnuclear leukocytes (PMN) from early-onset periodontitis (EOP) patients. J Dent Res (abs), March 1994
- Parlar A, Cafesse R, Rossmann JA, Oygurt, Balos K, Nasjetic, Ghaffar KA: In-vivo separation of periodontal ligament and bone cells. Euro Perio, Paris, May 1994
- Ghaffar KA, Cutler CW, Brown RS: Prevalence of HIV in Egyptian dentists as determined by ELISA. Oral Surg., Oral Med., Oral Pathol., December 1994
- Hala K, Abdel-Gaber, Manal M Hosni, Khaled A Ghaffar: Clinical, bacteriological and immunological examination as well as treatment of a patient with Chediak Higashi syndrome. Egyptian Dental Journal; 1995
- Khaled A, Abdel Ghaffar, Hala K, Abdel-Gaber, Nivine I Raggy: Specific antibody response to subgingival microflora from juvenile periodontitis patients in the Egyptian population. Egyptian Dental Journal, 42: 1537-1543, 1996
- Cutler CW, Ghaffar KA: A short-term study of the effect of SBHAN, a Novel compound, on gingival inflammation in the beagle dog. J Periodontol; 68: 448455, 1997

9. Khaled Abdel Ghaffar: Implant management of the periodontally compromised patient. Proceedings of the Second International Implantology Conference, p. 122-125, 1997
10. Ghaffar KA, Manal MH: Periodontal disease in immunologically compromised patients. Proceedings of the 8th International Dental Congress, p. 53, 1997
11. Rossmann JA, Parlar A, Ghaffar KA, Israel M: Use of carbon dioxide laser in guided tissue regeneration wound healing in beagle dogs. *Ain Shams Dental Journal*; 1: 67-79, 1998
12. El-Shamt M, Ghaffar KA, Brown RS, Ajagbe O: Extra-nodal non- Hodgkin's Lymphoma of the oral cavity. A case report. *The American Dental Institute for Continuing Education*; 66: 19-23, 1998
13. Ghaffar KA, Zahran FM, Fahmy HM, Brown RS: Immunologic and genetic assessment of Papillon-Lefevre syndrome among Egyptians. *Journal of Dental Research (abstract)* 276, 1998
14. Hart TC, Bowden DW, Ghaffar KA, Wang W, Cutler CW, Cebeci I, Efeoglu A, Firatii E: Sublocalization of the Papillon-Lefevre syndrome locus on 1q14-21. *American Journal of Medical Genetics*; 79: 134-139, 1998
15. Ghaffar KA, Zahran FM, Fahmy HM, Brown RS: Papillon-Lefevre syndrome: neutrophil function in 15 cases from 4 families in Egypt. *Oral Surg, Oral Med, Oral Pathol, Oral Radiol*;88: 320-325, 1999
16. Khaled A. Abdel-Ghaffar: Lichen pinuus and hepatitis C virus in the Egyptian population. *Ain Shams Dental Journal*; 2: 245-253, 1999
17. Khaled Abdel-Ghaffar: The use of carbon dioxide laser in the management of different types of gingival hyperplasia. *Cairo Dental Journal*; 15: 4, 1999
18. Nalin Thakker, Jackline James, Khaled A. Ghaffar: Loss of function mutations in cathepsin C results in periodontal disease and palmoplantar keratosis. *Nature Genetics*; 23: 421-424, 1999
19. K.A. Abdel-Ghaffar, N.I. Ragy, and M.O. Wasfy: The Predominant Cultivable Microflora of Early-Onset Periodontitis (EOP) in Egypt, *Cairo Dent. J.*, 16(5): 405-410, 2000
20. K.A. Ghaffar, M.M. Hosny, and S. Garrett: Enamel matrix proteins and bioabsorbable membrane in the treatment of early-onset periodontitis. *J.Dent. Res. IADR, Chicago*, 2001
21. Mohamed El-Shahat, Khaled A. Abdel-Ghaffar, Akram El-Awady: Impaired intracellular killing and chemotaxis of polymorphonuclear leukocyte (PMN) from early-onset periodontitis patients. *Ain Shams Dental Journal*, volume IV, no. 4, 173-180, Dec. 2001
22. A. El Awady, K.S. Deiffallah, K.A. Abdel-Ghaffar, G. Kenawy: Tumor Necrosis Factor Alpha and Prostaglandin E2 Response as a Potential Risk Marker for Chronic Periodontitis in Insulin-Dependent Diabetes Mellitus Patients. *Ain Shams Dent. J.* 225-232, Sept. 2003
23. K.S. Deiffallah, A. El Awady, K.A. Abdel-Ghaffar, M. El-Barbary, S. Shehata: Combined Autogenous Platelet-Rich Plasma Gel and Demineralized Freezed-Dried Bone Allograft in Treatment of Periodontal Osseous Defects, Clinical Evaluation. *Ain Shams Dent. J.* 233-242, Sept. 2003
24. C. Hewitt, C.L. Wu, F. Hattab, W. Amin, K.A. Ghaffar, and N.S. Thakker: Co-inheritance of two rare genodermatoses (Papillon Lefevre Syndrome and Oculocutaneous Albinism Type 1) in two families: a genetic study. *British Journal of Dermatology*, 2004
25. C. Hewitt, D. McCormick, F. Hattab, P. Solan, K.A. Ghaffar, and N.S. Thakker: The role of cathepsin C in Papillon Lefevre syndrome Prepubertal Periodontitis and Aggressive Periodontitis. *Human Mutat.* 23: 222-228, 2004.
26. Khaled Abdel Ghaffar, Salah Abdel Fatah, Ashraf Abdel Monaem "The Predominant Cultivable Microflora Around Implants in Papillion – Lefevre Syndrome". *Egyptian Dental Journal*:Vol.55, 1:15, April 2009
27. Ghaffar KA, Glascone A, Rose-Nelson C, Brown RS. : Panoramic Radiographic Representation of Progressive Periodontal Destruction in a Family with Six Affected Papillion – Lefevre Siblings. *J Clin Pediatr Dent* 2009;34(1):61-66
28. Khaled Abdel Ghaffar, Salah Abdel Fatah, Ronald S. Brown, Ashraf Abdel Monaem: The Predominant Cultivable Microflora Around Implants in Papillon– Lefevre Syndrome. *The Journal of Implant & Advanced Clinical Dentistry* May 2010 Vol.2, No.4:65-74
29. Fatma El-Tony, Hala Aboel-Alla, Khaled Abdel-Ghaffar: Periodontal inflammatory marker and cardiovascular disease. *The international association of dental research* vol,114;1122-1123, June 2010



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31. Mohamed Bahrawy, M. Mofty, Khaled Abdel-Ghaffar: The mutual effect of hyperlipidemia and proinflammatory cytokine related to periodontal infection. *Egyptian Journal of Oral and Maxillofacial Surgery* vol.2,87-95 May 2011
32. Khaled A. Abdel Ghaffar, Hazem Ata, Sherine A. Nasry, Amani H. Nemat, Mahmoud K. el Ashiry: The Effect of Unifferentiated Mesenchymal Bone Marrow Stem Cells on the Healing of Fresh Extraction Bony Sockets. *Life Science Journal* Vol. 9(3) 2012
33. Ahmed Y Gamal, Khaled A. Abdel-Ghaffar, Vincent J Iacono. A Novel Approach For Enhanced NanoParticle Sized Bone substitute adhesion to chemically treated Peri-implantitis Affected Implant Surfaces ( An in-vitro Proof of Principle Study ) *Journal of Periodontology* Feb 2013
34. Brodie Miles, Khaled A. Abdel-Ghaffar, Ahmed Y Gamal, Bubk Baban, Christopher William Cutler. Blood Dendritic cells: “ Canary in the Coal Mine “ To Protect Chronic Inflammatory Disease? *Frontiers Microbiology* Feb 2014
35. J.Crossman, A.Saleem, N.H.Felemban, S. Aldaghreer, E. Fawzi, M. Farid, K. Abdel Ghaffar, and T.H. El-Bialy,” Effect of Stem Cells and Ultrasound on Dogs Periodontal ligament”. *International Association for Dental Research* paper # 190953 June 2014
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37. Ahmed. Y. Gamal, Khaled A. Abdel-Ghaffar, Osama Almarghany “ Crevicular fluid growth factor release profile following the use of platelets Rich Fibrin (PRF) and Plasma rich growth factor (PRGF) in treating periodontal intra bony defects (Randomized Clinical Trial) *Journal of periodontology* Dec. 2015
38. M. Al Bahrawy<sup>1</sup>, A.Y. Gamal<sup>1</sup>, K. Ghaffar<sup>1</sup>, G.E. Romanos<sup>2</sup>Hydroxyapatite as a Biomaterial to Improve Stem Cell-Related Tissue Engineering (submitted for publication February 2016 )
39. A Novel Approach of Periodontal Osseous Wall Piezosplitting and EDTA Root Surface Etching in Management of Localized Intrabony Defects with Wide Angulation (Randomized Clinical Trial) Ahmed Y Gamal \*, Khaled A. Abdel-Ghaffar \*, Mohamed MF Khedr\*\*, Mahmoud T El Destawy\*\* Submitted for publication, *Journal of periodontology*, May 2018
40. Perforated Barrier Membranes in Association with Simvastatin gel and EDTA root surface etching in Treatment of Intrabony Defects (Clinical and Biochemical Study) Ahmed Y Gamal \*, Khaled A. Abdel-Ghaffar \*, Mohamed Al Shahat\*\*, Dalia Rasheed Issa \*, Ahmed Abd el Azeez\*, Vincent J Iacono Submitted for publication, *Journal of Periodontology*, June 2018
41. Influence of Different Decontamination Approaches on Bone Substitute Adhesion to Periimplantitis–Affected Implant Surfaces, An SEM Proof-of-Principle Study Ahmed Y. Gamal\* Khaled A. Abdel-Ghaffar \*, Mahmoud T Al Destawy\*\*, Froum Scott\*\*\* Submitted for publication, *Journal of Periodontology*, June 2018
42. Dimensional Evaluation of Blood Clot Gap Distances within the Intrabony Defects Following Grafting and EDTA Root Surface Treatment - Experimental Study in Dogs. Ahmed Y Gamal \*, Khaled A. Abdel-Ghaffar \*, Mohamed G Zouair#, Mohamed H Samalma\*\*, Mahmoud T El Destawy Accepted for publication, *journal of periodontology*, Jan. 2018
43. Adel-Khattab D, F. Giacomini, B. Peleska, R. Gildenhaar, G.Berger, C. Gomes, U. Linow, M. Hardt, J. Günster, M. Stiller, A. Houshmand, K.A. Ghaffar, A.Gamal, M. EL-Mofty, C. Knabe. Development of a synthetic tissue-engineered 3D printed bioceramic-based bone graft with homogenously distributed osteoblasts and mineralizing bone matrix in vitro. *J Tissue Eng Regen Med.* 2016 Nov 15. doi: 10.1002/term.2362. (IF 4.71)
44. Adel-Khattab D, B. Peleska, M. Kampschulte, M. Stiller, R. Gildenhaar, G. Berger, C. Gomes, U.Linow, M. Hardt, J. Günster, A. Houshmand, K.A. Ghaffar, A.Gamal, M. EL-Mofty, C. Knabe. An intrinsic angiogenesis approach and varying bioceramic scaffold architecture affect blood vessel formation in bone tissue engineering in vivo. *Key Engineering Materials* 2017, Vol. 720, pp. 58-64 (IF 0.39).
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46. Effect of Intraligamentary Injection of Fibroblasts On Cementum Thickness  
Authors (FIRST NAME INITIAL LAST NAME): W. QAYYUM, J. J. Crossman, A. Saleem, N. Feldman. S. Aldaghreer. E.M. Fawzi, M. S. Farid. K. A. Abdel Ghaffar, T. H. El-Bialy
47. Effect of gingival fibroblasts and ultrasound on dogs' root resorption during orthodontic treatment. Authors, Jacqueline Crossman. Ali H. Hassan, Ali Salewm, Nayef Felemban, Saleh Aldaghreer, Elham Fawzi.Mamdouh Farid, Khaled Abdel-Ghaffar, AUSAMA Gargoum, and Tarek El-Bialy.
48. Effect of Inflammation on Gingival Mesenchymal Stem/Progenitor Cells' Proliferation and Migration through Microperforated Membranes: An In Vitro Study. Authors, M. Al Bahrawy, K. Ghaffar, A. Gamal, K. El-Sayed, and V. Iacono.
49. Regenerative potential of cultured gingival fibroblasts in the treatment of periodontal intrabony defects (randomized clinical and biochemical trial). Authors, Mahetab Abdal-Wahab, Khaled A. Abdel Ghaffar, Ola M. Ezzatt, Ahmed Abdel Aziz Hassan, Mervat Mohamed S. El Ansary, Ahmed Y. Gamal.
50. Investigating the Significance of Aerosols in Determining the Coronavirus Fatality Rate Among Three European Countries. Authors, Wenzhao Li1 · Rejoice Thomas2 · Hesham El-Askary1,3,4 · Thomas Piechota1 · Daniele Struppa1 · Khaled A. Abdel Ghaffar5