CURRICULUM VITAE



Dr. Aya Khamis Hassan

Clinical Scientist - Oral Pathologist - Scientific Coordinator

Work Experience Dentist - Clinical Scientist - Scientific Coordinator 04/2022 - Current Univ.-Prof. Dr. Dr. B.Al-Nawas Clinic for Oral and Maxillofacial Surgery, Plastic Surgery University Medicine of the Johannes Gutenberg University, Mainz, Germany • Coordination of the clinical studies and Oral Implantology Master Program. • Ensuring compliance with legal and ethical guidelines. • Protocol management, data collection, and monitoring visits. • Communication with sponsors, ethics committees, and stakeholders. • Patient recruitment, participation in treatment, and patient tracking. • Carry out dental examinations and treatments TransMed Fellow – Doctoral Scientific Researcher 04/2019 - 10/2023 Univ.-Prof. Dr. R. Stauber Molecular and Cellular Oncology, Department of Otolaryngology, University Medicine of the Johannes Gutenberg University, Mainz, Germany • Intensive research in the field of molecular oncology and cancer. • Carrying out laboratory experiments for cancer research. • Data analysis for scientific study projects. • Scientific publications, conference presentations. • Teaching Master and Doctorate Students. Oral Pathologist and Lecturer 02/2012-04/2019 Oral Pathology, Faculty of Dentistry Alexandria University (Egypt) • Teaching oral pathology to undergraduate and master's students. • Expertise in oral pathology and oral mucosal diseases. • Clinical and histopathological diagnosis of head and neck lesions and tumors. • Diagnosis of biopsies from different specialties and writing reports. • Oral Cancer Research Dentist and Clinic Manager 11/2011 - 11/2018 Dr. Nadia Sobhy Dental Clinic, Alexandria (Egypt) • Clinic management and business management. • Diagnosis and treatment of oral and maxillofacial diseases. • Ensure compliance with quality standards and regulations. **Dental Internship** 11/2010 - 11/2011 Alexandria University (Egypt) • Diagnosis and treatment of oral and maxillofacial diseases. • Cooperation with colleagues and superiors at the university. • Ensuring compliance with treatment standards and protocols. 07/2006 - 10/2010 **Dental Assistant** Prof. Dr. Zaazou, Alexandria (Egypt) • Assistance with dental examinations and treatments. • Patient care and clinic Management.

German Dental Board

» Very good with honor degree
 » (12) out of (308) Graduate
 American Diploma

» SAT I: 1320/1600

Ph.D. studies - Summa cum laude (Note 1.0)

Radiation Protection Diploma (24 Credit hours)

Master of Science in Oral Pathology (GPA 3.736)

peripheral blood of patients with oral squamous cell carcinoma.

Pioneer American School, Alexandria, Egypt

House of Technology, Essen, Germany

Molecular and Cellular Oncology, Department of Otolaryngology University Medical Center of the Johannes Gutenberg in Mainz **»** The Role of Vitamin D and Vitamin D Receptor in Head and Neck Cancer

State Office for Social Affairs, Youth and Supply, Koblenz, Germany

Doctor of Philosophy (Ph.D. dent) Courses in Oral Pathology (GPA 3.905) *Oral Pathology Department, Faculty of Dentistry, Alexandria University, Egypt*

Oral Pathology Department, Faculty of Dentistry, Alexandria University, Egypt » Diagnostic and prognostic value of cancer stem cell marker cd44 and soluble cd44 in the

Bachelor of Science in Dental Medicine and Oral Surgery (84.8%)

Faculty of Dentistry, Alexandria University, Alexandria, Egypt

» SAT II: 1480/1600

Education

04/2019 - 10/2023	
Title	
10/2021	
06/2021	
09/2015 - 07/2018	
09/2012 - 07/2015	
Title	
09/2005 - 07/2010	
Grade Ranking	
09/2002 - 06/2005	
Grade	

Selected Training

Scientific	Mainzer Entrepreneurship Program
/	JGU, Mainz /Unternehmer TUM, München
	Investigator course for clinical trials with medical devices
	Medical University Heidelberg, Heidelberg
	Projektmanagement (IPMA) Basic certificate
	Johannes Gutenberg-University, Mainz, Germany
	Medical Devices legalities (MPG und MPDG) (5 Credit Points)
	Interdisciplinary Center for Clinical Studies (IZKS), Mainz, Germany
	From career choice to career goal (TransMed)
	Johannes Gutenberg-University, Mainz, Germany
	Strategic Career Crafting (TransMed)
	Johannes Gutenberg-University, Mainz, Germany
	Writing and Publishing Research Articles (TransMed)
	Johannes Gutenberg-University, Mainz, Germany
	Leadership and Communications (TransMed)
	Johannes Gutenberg-Universität, Mainz
	Profiling and Positioning in Networks (TransMed)
	Johannes Gutenberg-University, Mainz, Germany
	Introduction to Mass Spectrometry-based Proteomics
	Johannes Gutenberg-University, Mainz, Germany
	Good Scientific Practice (TransMed)
	Johannes Gutenberg-University, Mainz, Germany
	Scientific Writing (TransMed)
	Johannes Gutenberg-University, Mainz, Germany
	How to build, develop, and use a professional network
	Institute for Molecular Biology, Mainz, Germany

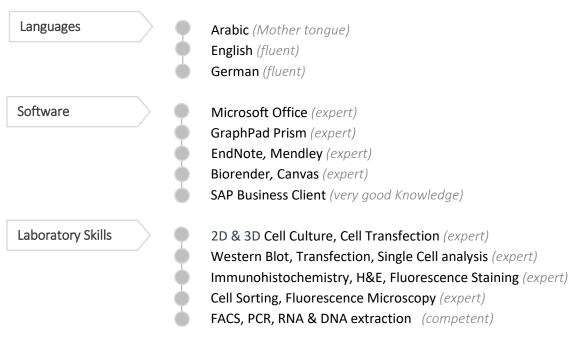
Radiological advanced training - 2 Days

Dental

Alexandria University, Alexandria, Egypt

- **Tissue Engineering Course Prof Dr. Mona Marie -** 4 Days Alexandria University, Alexandria, Egypt
- Transmissions- and Electron Microscopy 3 Days
 Faculty of Science, Alexandria University, Alexandria, Egypt
 Evidence-based Dentistry Kurs 4 Days
 - Alexandria University, Alexandria, Egypt Aspects of Oral Surgery -2 Weeks
 - Alexandria University, Alexandria, Egypt
- Operative treatment with Composite 30 Credit Hours Alexandria Dental Syndicate, Alexandria, Egypt
 Endodontics Course - 30 Credit Hours
 - Alexandria Dental Syndicate, Alexandria, Egypt
- Prothesis Course " Ideal Preparation" 6 Credit Hours Alexandria Dental Syndicate, Alexandria, Egypt

Qualifications



Publication:

The Magic Triangle in Oral Potentially Malignant Disorders: Vitamin D, Vitamin D Receptor, and Malignancy. Aya Khamis *, Lara Salzer, Eik Schiegnitz, Roland H. Stauber, Désirée Gül *. IJMS (2023)

Exploiting Vitamin D Receptor and Its Ligands to Target Squamous Cell Carcinomas of the Head and Neck. Laura Koll ^{1,†}, Désirée Gül ^{1,†}, Manal I. Elnouaem ², Hanaa Raslan ², Omneya R. Ramadan ², Shirley K. Knauer ³, Sebastian Strieth ⁴, Jan Hagemann ¹, Roland H. Stauber ^{1,*} and **Aya Khamis ^{1,2,*}. IJMS (2023)**

The Vitamin D Receptor–BIM Axis Overcomes Cisplatin Resistance in Head and Neck Cancer. **Aya Khamis***, Désirée Gül, MaditaWandrey, Qiang Lu, Shirley K. Knauer, Christoph Reinhardt, Sebastian Strieth, Jan Hagemann and Roland H. Stauber*. **Cancers (2022)**

Impact of osteoblast-specific factor 2 in promoting metastatic progression of head and neck cancer Désirée Gül *, Andrea Schweitzer, **Aya Khamis**, Shirley K. Knauer, Guo-Bin Ding, Laura Freudelsperger, Ioannis Karampinis, Sebastian Strieth, Jan Hagemann, Roland H. Stauber*. **Cancers (2022)**

Profiling Cisplatin Resistance in Head and Neck Cancer: A Critical Role of the VRAC Ion Channel for Chemoresistance.

Siemer, S., Fauth, T., Scholz, P., Al-Zamel, Y., Khamis, A., Gül, D., Freudelsperger, L., Wollenberg, B., Becker, S., Stauber, R.H., et al. Cancers (2021).

Identification of cytokeratin24 as a tumor suppressor for the management of head and neck cancer. Gül, D., Habtemichael, N., Dietrich, D., Dietrich, J., Gößwein, D., **Khamis, A.**, Deuss, E., Künzel, J., Schneider, G., Strieth S., Stauber RH*. **Biological chemistry (2021).**

Nano Meets Micro-Translational Nanotechnology in Medicine: Nano-Based Applications for Early Tumor Detection and Therapy

S. Siemer, D. Wünsch, A. Khamis, Q. Lu, A. Scherberich, M. Filippi, M. Krafft, J. Hagemann, C. Weiss, Guo-Bin Ding, R.Stauber, A. Gribko*. Nanomaterials (2020)

Clinical Management Protocol for Dental Implants Inserted in Patients with Active Lichen Planus. Part II 4-Year Follow-Up.

AK Khamis*, MN Aboushelib, MH Helal. Journal of Prosthodontics (2018)

The influence of local delivery of bisphosphonate on osseointegration of dental implants **AK Khamis***, S Elsharkawy. **Evidence-based dentistry - Nature (2018)**

Diagnostic and prognostic value of cancer stem cell marker CD44 and soluble CD44 in the peripheral blood of patients with oral Squamous cell carcinoma **AK Khamis***, HA Fouad, HS Raslan, MM Fata, AI Fayad. **Open Science Journal (2017)**

Aya Khamis Hassan,

Ang Klains