

KATARZYNA ALEKSANDRA GURZAWSKA-COMIS, RCS (Eng) MOralSurg, PhD, PhD, DDS

Birthdate: 25.08.1982

Dentist and Scientist

Research field: implant dentistry, bone tissue engineering, stem cells, nanotechnology, biomaterials and biomimics

CAREER SUMMARY – research and clinical positions

Associate Professor in Oral Surgery Head of Maxillofacial Surgery and Pathology	Jun 2024 – present	Aarhus University, Denmark
Consultant in Oral Surgery	Jul 2023 - present	Liverpool University Hospitals NHS Foundation Trust
Senior Lecture/Associate Professor in Oral Surgery	May 2022 - present	University of Liverpool, School of Dentistry, Oral Surgery, UK Liverpool University Hospitals NHS Foundation Trust
Specialist and Clinical Lead of Primary Oral Surgery Service	Sep 2022-May 2022	Gloucester Health and Care NHS Foundation Trust, Oral Surgery iMOS Service, UK
Specialist in Oral Surgery RCS (Eng) MOralSurg	Jan 2021-May 2023	Birmingham Community Healthcare NHS Foundation Trust, Birmingham Dental Hospital, Oral Surgery Department, UK
NIHR Academic Clinical Lecturer in Oral Surgery		
PhD	Mar2015–Dec 2020	University of Birmingham, School of Dentistry, Oral Surgery, UK
Post-doc EU Marie Skłodowska-Curie	Sep2006–Apr2015	Medical University of Lodz, Faculty of Medicine and Dentistry, Poland
Post-doc	Sep2013–Aug2014	Charite University - Universitätsmedizin Berlin, Faculty of Medicine, Institute for Dental, Oral and Maxillary Medicine, Germany
	Sep2011 -Aug2013	University of Copenhagen, Faculty of Health and Medical Sciences, Institute of Odontology, Denmark
PhD	Sep2008–Aug2011	University of Copenhagen, Faculty of Health and Medical Sciences, Institute of Odontology, Denmark Glostrup Copenhagen University Hospital, Research Center for Ageing and Osteoporosis, Denmark
Dentist	Sep2008–Jan2012 Sep2007–Aug2008	DentinClinic, Copenhagen; ADAMED, Lodz
Post-graduate dental training	Nov2007–Jan2008 Sep2006–Mar2007	Thomas Lowerton, Lakarhuset Aktiebolag, Malmö, Sweden Medical University of Lodz, Faculty of Medicine and Dentistry, Poland
Research Assistant in Biomechanical Engineering	Sep2006–Aug2008	Technical University of Lodz, Faculty of Mechanical Engineering, Poland Technical University of Denmark, Department of Mechanical Engineering, Copenhagen, Denmark

RESEARCH EXPERIENCE

BONE BIOLOGY

in vitro studies of titanium dental implants and scaffolds using stem cells, primary and cell-line osteoblasts, macrophages, neutrophils, fibroblasts; bacterial infection model

NANOTECHNOLOGY

evaluation of chemical and physical surface properties titanium surfaces (AFM, SEM, XPS, confocal and fluorescence microscopy)
Mechanical properties: finite element analysis, 3D Model, 3D printing

ANIMAL STUDIES

in vivo studies of titanium implant surface on animal rabbit model and of scaffolds on osteoporotic and inflammatory rat model (histomorphometry, X-ray, microCT images Haar wavelet, micro CT)

CLINICAL EXPERIENCE

ORAL SURGERY (OS) – 6 years speciality

Simple and surgical extraction
Single dental implant placement
GBR (guided bone regeneration)
Management of oral pathologies (biopsy)
Management of odontogenic cyst
Sedation (IV and inhalation)
Children and adult GA
Oral and Maxillofacial Trauma

OS related to other specialities

Endodontic surgery:
root canal treatment and apicectomy
Orthodontic surgery (removal and exposure of impacted teeth, autotransplantation)
Hypodontia – MDT (multidisciplinary team)

ORAL PATHOLOGY

Management of cancer patients – MDT (special interest MRONJ)
Facial pain
Temporomandibular disorder
Pharmacological treatment

TEACHING EXPERIENCE

POSTGRADUATE

Assessment of clinical and surgical skills via ISCP
Management of PhD program in tissue engineering
Lead of research projects
Critical appraisal of scientific papers, PhD, Master and Bachelor theses

UNDERGRADUATE

Assessment of clinical skills via LIFTUPP and CAFS
“Chairside” teaching oral surgery
Fantom teaching minor oral surgery
Research methodology and delivery of scientific results

PROFESSIONAL (CPD)

Surgical principle and skills in dental implantology
Anatomy assessment based on CBCT
3D planning of implant placement
Bone biology and osseointegration - theory

GRANTS and AWARDS

May 2023 Osteology Foundation Award – 1st Prize in research competition
Oct 2022 BAOS Award for the best open paper
Mar 2020 IADR Osteology New Investigator Award in Bone Regeneration
Oct 2019 Finalist in NIHR Academic Ground Round at the University of Birmingham
Aug 2018 ATHENA SWAN Award
Sept 2017 IADR GSK Mineralised Tissue Group (MINTIG) Research Award
May 2017 Royal College of Surgeon of England Grant
April 2017 Values in Practice Awards, Birmingham Community Healthcare, NHS Foundation Trust
Sep 2016 GSK ODRT Awards
Apr 2016 SPIRE, Strategic Programme for International Research and Education, Bergen, Norway
Mar 2015 II Prize for New Investigator in Implant Dentistry, IADR 2015, Boston, US
Mar 2014 DENTSPLY IIS Award 2013 for oral presentation: “Plant-derived molecules, pectins as a novel nanocoating for improvement of osseointegration”
Oct 2013 Finalist of Basic Research Competition of 22nd EAO Annual Scientific Meeting 2013, Dublin, Ireland
Aug 2013 European Union Grant by Seventh Framework Program, Grant number # 290246 “Rheumatoid Arthritis and Periodontal Inflammatory Disease (RAPID)”, Experienced researcher, Marie-Curie Fellowship

Mar 2013	Finalist of the Arthur R. Frechette Prosthodontic Research Award Competition, IADR 2013, Seattle, United States
Dec 2012	Nomination for a Dale T. Mortensen Junior Fellowship at AIAS
Jul 2012	A National Heat Winner for Denmark in Euspen International Challenge 2012, Eindhoven, Netherlands
Sep 2011	Grant number #2106-07-0025 by the Danish Strategic Research Council, Programme Committee for nano science and technology, biotechnology and information technology „Nanocoating of bone implants in vivo”. Position in the project: Research Assistant (in vivo studies on rabbits)
Sep 2008	Grant number #2106-07-0025 by the Danish Strategic Research Council, Programme Committee for nano science and technology, biotechnology and information technology „Nanocoating of bone implants in vitro”. Position in the project: PhD student (<i>in vitro</i> studies)
Feb 2007	European Union Grant Call FP6-2004-NMP-NI-4, Integrated Project (IP) - 026717-2 “Metrological Needs for Dental Implants” part of the project: NanoCMM (Coordinate measuring machine for micrometric and nanometric applications). Position in the project: Research Assistant (metrological studies)
Sep 2007	CIRIUS grant (agency under the Danish ministry of education with the aim to support the internationalization of education and training in Denmark) “Roughness Analysis of Dental Implants” part of the project: NanoCMM. Position in the project: Research Assistant (metrological studies)
Sep 2006	Project granted by Medical University of Lodz, Faculty of Medicine and Dentistry and Technical University of Lodz, Mechanical Engineering “Numerical analysis of von Mises stresses and strain in human mandible after surgical operations with use of bone substitute materials” Supervised by: Marcin Kozakiewicz, Ryszard Grądzki. Position in the project: PhD student (clinical and numerical studies)
Feb 2004	SOCRATES grant “Analysis of knowledge about Dental Implantology among Polish and Spanish society”

EDUCATIONAL POSITIONS CURRENT and PAST:

Postgraduate clinical:

Supervision of 3 DCT and 2 StR – Liverpool University Dental Hospital (current)

Supervision of 4 DCT and 1 StR, 1 ACF – Birmingham Dental Hospital (past)

Instructor of Implantology Course by European Association of Osseointegration (EAO) in 2019, 2022 (past)

Postgraduate academic:

Supervision of 3 PhD students – University of Birmingham, Charite University, Jagiellonski University Krakow (past)

Supervision of 5 Master students – King’s College London, University of Birmingham, University of Leeds (past)

Supervision 3 Bachelor students – University of Birmingham (past)

Lecturer on Biomaterials – University of Birmingham (current)

Undergraduate clinical:

Tutor on BDS program in Oral Surgery and Oral Diagnosis – University of Liverpool (current)

Tutor on BDS program in Oral Surgery – University of Birmingham (past)

Undergraduate academic:

Lecturer on Biomaterials – University of Birmingham (current)

Lecturer on Research Course for 3rd year dental students – University of Liverpool (current)

Examiner: OSCE undergraduate 4th and 5th years dental students – University of Birmingham (past) and University of Liverpool (present)

DENTAL PROFESSIONAL ASSOCIATIONS

ADI Academic Advisor (Jan 2024 – present)

Board member National Osteology Foundation Group UK (NOG) (Sept 2023 – present)

Main organiser of BSODR ECR conference 23-24 March 2023 Liverpool “ Translational Oral Research”

Member of committee WIN (2023- present)

Secretary of ABAOMS (2022 – present)

Secretary of EAO Junior Committee (2014 – 2019)

Representative of Academic Oral Surgery Speciality Trainees in UK (2018 -2022)

Organiser of Implantology Course “My first implant” EAO (2018 – 2020)

Organiser of EAO Summer Camp 2015 and 2019

Scientific Program Organiser IADR Implantology Group (June 2011 – present)

LANGUAGES:

Polish – native speaker

English – professional

Danish - Prøve i Dansk 3

Spanish - basic