

CV short of Dr Anka Letic-Gavrilovic



Letic-Gavrilovic Anka, D.D.S., Ph.D., graduated at Faculty of Stomatology, University of Beograd, Yugoslavia. Her qualifications are: Doctor of Stomatology (Dr. Stom.), Master of science in Pharmacy/ biochemistry/immunology (M.Sc.), Doctor of Science (Ph.D. - Doc. Sc.) Biochemistry/immunology, Specialization in Medical Clinical Biochemistry. In period from 1981-1999 she had position of Assoc. Professor and Head of the Department of Physiology and Biochemistry, Faculty of Stomatology, University of Beograd, Yugoslavia.

Presently Dr Anka Letic-Gavrilovic is a senior research member in the Department of Biochemistry "A. Rossi-Fanelli, University "La Sapienza" Roma, Italy and exercises private practice in stomatology. During her scientific career she collaborated with Royal Postgraduate Medical School, Histochemistry Department, London, and Fukuoka Dental College, Department of Functional Bioscience, Fukuoka, Japan. Dr Letic is invited co-editor for The Indian Journal of Maxillofacial and Oral Surgery (National Journal Of The Association of Oral and Maxillofacial Surgeons of the India. Dr. Letic-Gavrilovic, whose mother tongue is Serbian, speaks fluent English and Italian and can also read French and Spanish. Dr. Letic-Gavrilovic is a member of:

- Japanese Association for Oral Biology;
- British Dental Assotiation,
- IADR-CED (International Association of Dental Research – Central European Division);
- Yugoslav Immunology Society;
- Yugoslav Periodontology Society;
- TESI (Tissue Engineering Society International in the USA);
- European Tissue Engineering Society.

Dr. Letic's dedicated her research interest for 25 years to the regulatory role of growth factors in morphogenesis and postnatal development of oral and cranio-facial area. She focused her interest to the function and postnatal development of the salivary glands with influence to the local and systemic immune systems.

Presently, she continued to develop her clinical operative skills while working in private Clinic. Also, she is very active in field of tissue engineering of cranio-facial area, researching the role of growth factors in osteogenesis and implant osseointegration, interfacial guided osteogenesis and biocompatibility of different biomaterials as bioactive bone fillers. She is very active in various Tissue Engineering initiatives for oral surgery, design & management of clinical studies and regulatory affairs

Together with colleagues she deposited Patent: "Process of production of hydroxyapatite/poly-L-lactide (HAp/PLLA).

Among her current European-wide assignments she is independent Expert serving European Commission almost for 3 years. Also, Dr Letic is:

- scientific consultant of two small dental companies,
- participation in European V Specific Program, "Promoting Competitive and Sustainable Growth", Advanced Functional Biomaterials
- participation in European VI Program, Expression of Interest (IP), "Nanotechnologies and nanosciences, knowledge-based multi-functional materials and new production processes and devices;
- has close scientific cooperation with European-level colleagues.

Besides peer-reviewed papers (45), she presented her work through invited lectures (8), seminars (2), national (13) and international (24) Congresses. She published 3 books, for undergraduate and postgraduate university courses.

Dr Letic is owner and general manager of the private company "KEI-KA" from 1991 to the present time. Company has changed name to the: International Clinic for Neo-Organs, Rome, Italy.

Selected publications in biomaterials and medical devices:

1. **Letic-Gavriloic A.**, S. Shibaïke, M. Niina, S. Naruse and K. Abe: Localization of the chromogranins A and B, beta-endorphin and enkephalins in the submandibular salivary glands of mice. *Jap J Oral Biol*, 31 (4): 453-462, 1989
2. **Letic-Gavriloic A.**, S. Shibaïke, S. Fukai, S. Naruse, K. Abe: A comparative study of the localization of vasoactive intestinal peptide- and substance P-like immunoreactivities in the submandibular salivary glands of mice. *Jap J Oral Biol*, 31(6): 705-711, 1989.
3. Tanaka E., Habu T. **Letic-Gavriloic A.** K. Abe: Changes in protein secretion by rat submandibular glands in response to Isoproterenol, Alpha-Methylnoradrenaline and Clonidine during postnatal development. *J Dent Res*, 60 (1): 60-66, 1990.
4. Tanaka E., T. Habu, **A. Letic-Gavriloic**, K. Abe: Protein secretion by rat submandibular glands in response to Isoproterenol, Alfa-Methylnoradrenaline and Clonidine during aging. *Mech Aging Development*, 54: 221-233, 1990.
5. **Letic-Gavriloic A.**, K. Abe, M. Mori: Chromogranin B-like immunoreactivity in the submandibular salivary glands of mice during postnatal development. *Acta Histochem* 89: 1-10, 1990.
6. **Letic-Gavriloic A.**, K. Abe: Localization of chromogranins, non-neuron specific enolase and different forms of somatostatins in the submandibular salivary glands of mice. *J Dent Res* 69(8): 1494-1499, 1990.
7. M. Tashiro, **A. Letic-Gavriloic**, H. Nakamura, K. Ohkuma, Y. Egashira, H. Omori, H. Nagata, M. Harada, K. Abe: The Effects of 6-Hydroxydopamine and Potential Antagonists on Flow Rates and Protein Secretion by Rat Submandibular Glands. *Stom Glas S*, 44 (3): 131-137, 1997.
8. K. Abe, A. Okina, T. Yano, C. Gao, H. Ohmori, K. Ishibashi, T. Nishiura, **A. Letic-Gavriloic**: Abnormally High Levels of Cystatin S in Submandibular Glands, Saliva and Gingiva of Plaque-resistant Rats. *J. Dent. Res.*, 77(11); 1913-1919, 1998.
9. K. Yamada, **A. Letic-Gavriloic**, M. Mori, T. Nishiura, H. Nagata, K. Abe: Immunohistochemical and quantitative analysis of cystatin S in submandibular and sublingual glands of rats. *Stom Glas S*, 45 (1): 19-25, 1998.
10. **Letic-Gavriloic A.**, Scandurra R, K. Abe. Genetic Potential of Interfacial Guided Osteogenesis in Implant Devices, *Dent Mater J* 19(2); 99-132:2000
11. Scandurra M., R. Di Giorgio, A. Lioi, C. Caracciolo, **A. Letic-Gavriloic**: Ancoraggio ortodontico con impianti in titanio, *Convivia Odontostomatologica*, Fasc IV, 1-8; 1999.
12. Higga K., Motokawa W., Abe K., **Letic-Gavriloic A.** Regulatory Roles for Salivation of the N-Terminal Portion in Naturally Occuring and Newly Synthesized Tachykinins. *Balk J Stom* 4:76-82;2000.
13. **Letic-Gavriloic A.**, Scandurra R., Giavaresi G., Fini M., Giardino R., Abe K. Osseointegration of implant devices supported with a local application of the growth factors. *Balk J Stom*, 1:78-85, 2001.
14. **Letic-Gavriloic A.**, Fini M., Giavaresi G., Giardino R., Abe K. Evaluation of composite collagen/hydroxyapatite implantation and nerve growth factor (NGF) delivery on new bone ingrowth. *Acta Veterinaria*, 51 (5-6); 299-310: 2001.
15. **Letic-Gavriloic A.**, Piattelly A., Abe, K. Nerve growth factor β (NGF β) delivery via collagen/hydroxyapatite composite and new bone ingrowth. *J Mat Sci: Mat Med*, 14; 1-8: 2003.
16. **Letic-Gavriloic A.**, L.J. Todorovic, Abe K. Oral Tissue Engineering of Complex Tooth Structure on Biodegradable DLPLG/ β -TCP Scaffolds. *Biomaterials: From Molecules to Engineered Tissue*, edited by N. Hasirci and V. Hasirci, Kluwer Academic/Plenum Publishers, USA, p.267-281; 2004.
17. **Letic-Gavriloic A.** Bakos D.: Membranes and Bone Substitutes in Reconstructive Surgery. Nova Science Publishers, Inc. USA. ISBN 1-59454-368-2, In: *Polymeric Materials: New Research*. Ed. B.M. Caruta, pp.107-139, 2005.

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