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CURRICULUM VITAE

CURRENT POSITION

2019- present	Professor, MD, PhD, ENT department, cochlear implant unit, Tours, France
2012-present	1253 INSERM Member (ibrain), Tours, France

CLINICAL AND RESEARCH INTERESTS

Cochlear implant - auditory training
Auditory cortex plasticity following auditory rehabilitation
Sensorineural hearing loss pathophysiology (metabolic pathways) - Biological deafness markers
ENT resident education (surgery and audiometry)

MEDICAL EDUCATION

2013- 2019	MD, PhD ENT department, Physiology department, Tours, France (assistant professor)
2009-12	Fellowship, ENT department, Tours hospital, France.
2008-09	Fellowship, ENT department (pediatric unit), Tours hospital, France.
2008	Medical Thesis, Three-dimensional temporal bone for training surgery, Tours, France.
2002-08	Residency, ENT department, Tours hospital, France.
1997-2002	Medical school, Angers University, France.

SCIENTIST EDUCATION

2012- 2013 Post Doc, House Research Institute, Los Angeles, CA, USA (Robert V Shannon and John Galvin)

2012 PhD Thesis, Cortical auditory evoked potentials in cochlear-implanted children, Tours, France.

2007 MASTER 2, Three-dimensional temporal bone for training surgery. Paris, France.

2002 MASTER 1, Angers, France.

STUDY

INVESTIGATOR

01/2017- present PHRC Alzheimer disease and hearing aids

LOCAL INVESTIGATOR

09/2014- 02/2016 Cochlear implantation in single sided deafness and asymmetrical hearing loss: a cost/utility study (PI)

ASSOCIATE INVESTIGATOR

03/2014 - present Auris TACTT3 study; AMPACT2 study (AI)

02/2014- 01/2016 Neurelec study (AI)

GRANTS, AWARD and HONORS

2019 Laureate, Fondation pour l'audition

2015 CIFFRE grant (PhD thesis supervision, Elsa Legris)

2011 First prize poster, ASPO

2011 French ENT society grant

2011 GEMO grant

2008 MD thesis prize, local university prize

BOARD MEMBERSHIP

2019- present French audiology society

2018-present UNESS (National Digital university health and sport)

SOCIETY MEMBERSHIPS

2009-present French ENT society (SFORL)

2011-present French Audiology society (SFA)

2012-presnet ENT college

2013-presnet American Research Otolaryngology (ARO)

2015-present French oto-neurology society (AFON)

EDITORIAL ACTIVITIES

2012- present Reviewer, *European annals of otorhinolaryngology head and neck diseases*
2012-2016 Reviewer, *European Archives Otolaryngology*
2008-2015 Reviewer, *International Journal of Pediatric Otolaryngology*
2008 Rewiever, *Acta Oto-laryngologica*

COLLABORATIONS

International

John Galvin, House Ear Institute, Los Angeles, USA
Pr Quian-Je FU, UCLA, Los Angeles, USA

National

Pr Mathieu Marx, ENT department, Toulouse university hospital, France
Pr Frederic Venail, ENT department, Montpellier university hospital, France
Pr Yann Nguyen, ENT department, Paris hospital university, France

LOCAL RESPONSABILITIES

2018-2020: Member of the head of the faculty board
2014-present: ECN Committee
2014-presnet; Education committee
2014-2019: Direction of the Audiovisual and informatics department

BIBLIOGRAPHY

77 papers indexed in pubmed. (22 as a first author, 27 as last author)

Selected publications

1: Aussedat C, Robier M, Aoustin JM, Parietti-Winkler C, Lescanne E, Bonnard D, Marx M, Teissier N, Van Den Abbeele T, François M, Galvin J, Bakhos D. Using virtual reality in audiological training: Our experience in 22 otolaryngology residents. *Clin Otolaryngol*. 2020 Jul;45(4):643-648.

2: Poncet-Wallet C, Mamelle E, Godey B, Truy E, Guevara N, Ardoint M, Gnansia D, Hoen M, Saï S, Mosnier I, Lescanne E, **Bakhos D**, Vincent C. Prospective Multicentric Follow-up Study of Cochlear Implantation in Adults With Single-Sided Deafness: Tinnitus and Audiological Outcomes. *Otol Neurotol*. 2019 Dec 20.

3: Legris E, Roux S, Aoustin JM, Galvin J, **Bakhos D**. Cortical auditory responses according to hearing rehabilitation in unilateral hearing loss. *Eur Ann Otorhinolaryngol Head Neck Dis*. 2019 Nov;136(6):439-445.

4: Trinh TT, Blasco H, Emond P, Andres C, Lefevre A, Lescanne E, **Bakhos D**. Relationship between Metabolomics Profile of Perilymph in Cochlear-Implanted Patients and Duration of Hearing Loss. *Metabolites*. 2019 Nov 1;9(11). pii: E262. doi: 10.3390/metabo9110262.

5: Karoui C, James C, Barone P, **Bakhos D**, Marx M, Macherey O. Searching for the Sound of a Cochlear Implant: Evaluation of Different Vocoder Parameters by Cochlear Implant Users With Single-Sided Deafness. *Trends Hear*. 2019 Jan-Dec;23:2331216519866029.

6: Legris E, Galvin J, Roux S, Gomot M, Aoustin JM, Marx M, He S, **Bakhos D**. Cortical reorganization after cochlear implantation for adults with single-sided deafness. *PLoS One*. 2018 Sep 24;13(9):e0204402. doi: 10.1371/journal.pone.0204402. eCollection 2018.

7: Mavel S, Lefèvre A, **Bakhos D**, Dufour-Rainfray D, Blasco H, Emond P. Validation of metabolomics analysis of human perilymph fluid using liquid chromatography-mass spectroscopy. *Hear Res*. 2018 Sep;367:129-136.

8: Reffet K, Lescanne E, Bobillier C, Aussedat C, **Bakhos D**. Hearing aids in patients with vestibular schwannoma: Interest of the auditory brainstem responses. *Clin Otolaryngol*. 2018 Mar 25.

9: Dorbeau C, Galvin J, Fu QJ, Legris E, Marx M, **Bakhos D**. Binaural Perception in Single-Sided Deaf Cochlear Implant Users with Unrestricted or Restricted Acoustic Hearing in the Non-Implanted Ear. *Audiol Neurootol*. 2018;23(3):187-197.

10: **Bakhos D**, Galvin J, Roux S, Lescanne E, Bruneau N. Cortical Processing of Vocal and Nonvocal Sounds in Cochlear-Implanted Children: An Electrophysiological

Study. Ear Hear. 2018 Jan/Feb;39(1):150-160.

11: Aussedat C, Venail F, Nguyen Y, Lescanne E, Marx M, **Bakhos D**. Usefulness of temporal bone prototype for drilling training: A prospective study. Clin Otolaryngol. 2017 Dec;42(6):1200-1205.

12: De Seta D, Nguyen Y, Bonnard D, Ferrary E, Godey B, **Bakhos D**, Mondain M, Deguine O, Sterkers O, Bernardeschi D, Mosnier I. The Role of Electrode Placement in Bilateral Simultaneously Cochlear-Implanted Adult Patients. Otolaryngol Head Neck Surg. 2016 Sep;155(3):485-93.

13: Roux A, **Bakhos D**, Villeneuve A, Hermann R, Suy P, Lescanne E, Truy E. Does Checking the Placement of Ossicular Prostheses via the Posterior Tympanotomy Improve Hearing Results After Cholesteatoma Surgery? Otol Neurotol. 2015 Sep;36(9):1499-503.

14: Chenebaux M, Lescanne E, Robier A, Kim S, **Bakhos D**. Evaluation of a temporal bone prototype by experts in otology. J Laryngol Otol. 2014 Jul;128(7):586-90. doi: 10.1017/S0022215114001297. Epub 2014 Jun 16. PubMed PMID: 24932528.

15: **Bakhos D**, Delage H, Galvin J, Lescanne E, Roux S, Bonnet-Brilhault F, Bruneau N. Cortical electrophysiological markers of language abilities in children with hearing AIDS: a pilot study. Biomed Res Int. 2014;2014:198153.

16: **Bakhos D**, Roux S, Robier A, Bonnet-Brilhault F, Lescanne E, Bruneau N. Minimization of cochlear implant artifact in cortical auditory evoked potentials in children. Int J Pediatr Otorhinolaryngol. 2012 Nov;76(11):1627-32.

17: Lecerf P, **Bakhos D**, Cottier JP, Lescanne E, Trijolet JP, Robier A. Midmodiolar reconstruction as a valuable tool to determine the exact position of the cochlear implant electrode array. Otol Neurotol. 2011 Sep;32(7):1075-81.

18: **Bakhos D**, Velut S, Robier A, Al zahrani M, Lescanne E. Three-dimensional modeling of the temporal bone for surgical training. Otol Neurotol. 2010 Feb;31(2):328-34.

19: Lescanne E, François P, **Bakhos D**, Velut S, Robier A, Pollak A. Vestibular schwannoma: dissection of the tumor and arachnoidal duplication. Otol Neurotol. 2008 Oct;29(7):989-94.

David Bakhos

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