# XIN LI

# Curriculum Vitae

Department of Otolaryngology
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## EDUCATION

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| 2019- | M.S. in Otorhinolaryngology, Central South University |
| 2013-2018 | B.A. in Clinical Medicine, Inner Mongolia University For Nationalities |

## EMPLOYMENT & AFFILIATIONS

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| 2018-2019 | Medical residency, Xiangya Hospital Central South University |

## RESEARCH FIELDS

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| Primary: | Tumor-infiltrating NK cells and immunotherapy |
| Secondary: | Function of Th17 cells and PD1 in Tracheal Stenosis |

## PUBLISHED PAPERS

**2021**

"Antifibrotic Role of Nintedanib in Tracheal Stenosis After a Tracheal Wound" (As a co-author), *Laryngoscope*. 17 May 2021 https://doi.org/10.1002/lary.29618

"The genomic architectures of tumour-adjacent tissues, plasma and saliva reveal evolutionary underpinnings of relapse in head and neck squamous cell carcinoma" (As the 6st author), *British Journal of Cancer*. 2021 Jul 6. (2): 321–351.

"N6-methyladenosine modification of circCUX1 confers radioresistance of hypopharyngeal squamous cell carcinoma through caspase1 pathway" (As the 6st author), *Cell death & disease*. 2021 Mar 19;12(4):298.

**2020**

"Expression and Diagnostic Value of tRNA-Derived Fragments Secreted by Extracellular Vesicles in Hypopharyngeal Carcinoma" (As the 3rd author), *OncoTargets and Therapy*. 14 July 2021 Volume 2021:14 Pages 4189—4199

**2019**

"Down-Regulation of MiR-181c-5p Promotes Epithelial-to-Mesenchymal Transition in Laryngeal Squamous Cell Carcinoma via Targeting SERPINE1" (As the 1st author), *Frontiers in oncology. 2020, Dec 21;10:544476*

"Alcohol consumption, tobacco smoking, betel quid chewing and oral health associations with hypopharyngeal cancer among men in Central South China: a case–control study" (As the 7st author), *Cancer Management and Research. 2019 Jul 10;11:6353-6364.*

## WORKS IN PROGRESS

"OPN secreted by tumour cells impair the function of NK cells via the Integrin α4β1 pathway in head and neck squamous cell cancer" (with Dr. Ping Wu)
"Immunregulation Role of Th17 cells in Tracheal Stenosis After a Tracheal Wound" (with Dr. Ping Wu)

## SKILLS

Protein skills: Protein purification, SDS-PAGE, western blot, CO-IP, ELISA.

Immunology skills: Flow cytometry, immunohistochemical staining,  multiplex IHC staining, immunofluorescence technique, Duolink PLA  assay, and isolation of human immune cells (tumor-infiltrating and peripheral blood T-lymphocytes, NK-lymphocytes, and macrophage).

Molecular Biology skills: siRNA and plasmid transfection, DNA extraction, total RNA extraction, RT-PCR, PCR, FISH.

Cell Biology skills: Transwell assay, clone formation assay, wound healing assay, transfection, luciferase reporter assay, cell counting (BIO-RAD), confocal microscopy, cell proliferation assay, cell apoptosis assay (Annexin V/ PI), LDH release assay and cell culture.

Animal skills:Mouse handling, xenograft tumor model establishment, tracheal stenosis model establishment, iv injection, ip injection and tail blood withdrawal.

Computer knowledge: R, Git, MS Office (Word, Excel, Powerpoint, Visio), Adobe Photoshop, Adobe Illustrator, GraphPad Grism, Cytoscape and PubMed search.
Languages: Chinese(native), English (TOEFL: 81)

## TEACHING EXPERIENCE

USC project:    United Study Community (USC) project is the Central South University joint-learning team building plan. The USC project aims to help lower undergraduate students by establishing a team mutual assistance platform with graduate students as tutors and junior undergraduates as team members multi-dimensional adaptation to campus life, by providing different levels of resource support and social platforms to help them develop better in the school.

I worked with a graduate classmate as a "mentor" (similar to PI and Co-PI) and formed a team to guide ten students, including four undergraduates and six eight-year clinical medical students. The members of the team are interested in tumor transcriptome and bioinformatics analysis. We taught these low-grade students how to use R software and download TCGA database data, literature reading, retrieval methods. In addition, we also hold monthly online or offline meetings to report on learning progress, exchange ideas, solve problems, and share life anecdotes.