

DAFTAR PUSTAKA

- Acerbi I., Cassereau L., Dean I., Shi Q., Au A., Park C., Chen Y. Y., Liphardt J., Hwang E. S. and Weaver V. M. 2015. Human breast cancer invasion and aggression correlates with ECM stiffening and immune cell infiltration. *Integr. Biol.* 7:1120-113.
- Acharya, Sulav. 2015. Association of Epstein-Barr virus infection with oral squamous cell carcinoma in a casecontrol study. *Journal of Oral Pathology and Medicine.* 44(4):252-257.
- Adhiyanto, C., Hendarmin, L. and Puspitaningrum, R. 2020. *Pengenalan Dasar Teknik Bio-Molekuler.* Deepublish: Yogyakarta.
- Ahmed B., J., Jawed, K., Ujjan, I. U., Parveen, B., and Badvi, M. J. 2017. Recent techniques for diagnosis of oral squamous cell carcinoma. *EC MicrobiologyJournal.* 5(5):165-168.
- Ali, S. A., Irfan, B., Zahid, I., and Awan, S. 2017. Comparison of polymerase chain reaction and immunohistochemistry assays for analysing human papillomavirus infection in oral squamous cell carcinoma. *Journal of Clinical and Diagnostic Research.* 11(6):10–13.
- Alsansoy, Mohammed, R. 2014. Smokeless tobacco (Shammah) in Saudi Arabia: a review of its pattern of use, prevalence, and potential role in oral cancer. *Asian Pacific Journal of Cancer Prevention.* 15(16): 6477-6483.
- Alwi, I. 2015. Kriteria empirik dalam menentukan ukuran sampel pada pengujian hipotesis statistika dan analisis butir. *Formatif: Jurnal Ilmiah Pendidikan MIPA.* 2(2):1-10.
- Artha, D.A. 2018. Optimasi metode isolasi DNA dari sampel formalin-fixed, paraffin-embedded (FFPE) pasien triple negative breast cancer untuk next-generation sequencing. *Skripsi.* Universitas Brawijaya: Malang.
- Atkinson A, Renziehausen A, Wang H, Lo Nigro C, Lattanzio L, Merlano M, Rao B, Weir L, Evans A, Matin R. 2019. Collagen prolyl hydroxylases are bifunctional growth regulators in melanoma. *J Invest Dermatol.* 139:1118–1126.
- Bagnardi, V. 2015. Alcohol consumption and site-specific cancer risk: a comprehensive dose-response meta analysis. *British Journal of Cancer.* 112(3):580.
- Bai, X. X., Zhang, J., and Wei, L. 2020. Analysis of primary oral and oropharyngeal squamous cell carcinoma in inhabitants of beijing, china - a 10-year continuous single-center study. *BMC Oral Health.* 20(1):1-9.

- Bayer, C., and Vaupel, P. 2012. Acute versus chronic hypoxia in tumors : controversial data concerning time frames and biological consequences. *Strahlentherapie und Onkologie*. 188(7): 616–627.
- Belal, M., Elmoneim, W. A., Nasry, S., Mostafa, B., and Ali, S. 2018. VELscope versus toluidine blue for detection of dysplastic changes in oral keratotic lesions: diagnostic accuracy study. *Journal of The Arab Society for Medical Research*. 13:45–52.
- Best, S.L., Liu, Y., Keikhosravi, A., Drifka, C.R., Woo, K.M., Mehta, G.S., Altwegg, M., Thimm, T.N., Houlihan, M., Bredfeldt, J.S. and Abel, E.J., 2019. Collagen organization of renal cell carcinoma differs between low and high grade tumors. *BMC cancer*. 19(1):1-8.
- Bhargava, A., Saigal, S., and Chalisehar, M. 2010. Histopathological grading systems in oral squamous cell carcinoma: a review. *J. Int Oral Health*. 2(4):1-10.
- Brown GD, Denning DW, Gow NA, Levitz SM, Netea MG, White TC. 2012. Hidden killers: human fungal infections. *Sci Transl Med*. 19(4):165.
- Budhy, T.I., Bambang, B., and Urfa, S. 2015. Penentuan grading tumor ganas oral squamous cell carcinoma berdasarkan gambaran histopatologi (determination of grading malignant tumor oral squamous cell carcinoma based on histopatological view). *Jurnal Biosains Pascasarjana*. 17(1): 46–51.
- Budhy, T. I. 2019. Mengapa Terjadi Kanker. *Airlangga University Press*. 2:1-27.
- Cao, Y., Han, Q., Li, J., Jia, Y., Zhang, R., and Shi, H. 2020. P4HA2 contributes to cervical cancer progression via inducing epithelial-mesenchymal transition. *Journal of Cancer*. 11(10): 2788–2799.
- Chang JS, Lo HI, Wong TY, Huang CC, Lee WT, Tsai ST, Chen KC, Yen CJ, Wu YH, Hsueh WT, Yang MW, Wu SY, Chang KY, Chang JY, Ou CY, Wang YH, Weng YL, Yang HC, Wang FT, Lin CL, Huang JS, Hsiao JR. 2013. Investigating the association between oral hygiene and head and neck cancer. *Oral Oncol*. 49(10):1010-1017.
- Case, A., Brisson, B.K., Durham, A.C., Rosen, S., Monslow, J., Buza, E., Salah, P., Gillem, J., Ruthel, G., Veluvolu, S. and Kristiansen, V., 2017. Identification of prognostic collagen signatures and potential therapeutic stromal targets in canine mammary gland carcinoma. *PloS one*. 12(7):1-9.
- Conklin MW, Eickhoff JC, Riching KM, Pehlke CA, Eliceiri KW, Provenzano PP, 2011. Aligned collagen is a prognostic signature for survival in human breast carcinoma. *Am J Pathol*. 178(3):1221–1232.

- Costa, D. S. S. F., Brennan, P. A., Gomez, R. S., Fregnani, E. R., Santos, S.A.R., Martins, M. D., de Castro-Junior, G., Rahimi, S., and Fonseca, F. P. 2018. Molecular basis of oral squamous cell carcinoma in young patients: is it any different from older patients?. *Journal of Oral Pathology and Medicine*. 47(6):541–546.
- D'Aniello, C., Patriarca, E.J., Phang, J.M. and Minchiotti, G., 2020. Proline metabolism in tumor growth and metastatic progression. *Frontiers in oncology*, 10(1): 776.
- Elasbali, M.A., and Ahmed, G.H. 2018. A Review on the Etiology of Oral Cancer in Saudi Arabia. *International Journal of Medical Research & Health Sciences*.7(6): 161–170.
- Eales, K.L., Hollinshead, K.E.R. and Tennant, D.A., 2016. Hypoxia and metabolic adaptation of cancer cells. *Oncogenesis*. 5(1):190.
- Farina, A. R., Cappabianca, L., Sebastiano, M., Zelli, V., Guadagni, S., and Mackay, A. R. 2020. Hypoxia-induced alternative splicing: the 11th hallmark of cancer. *Journal of Experimental and Clinical Cancer Research*. 39(1): 1–30.
- Fang, M., Yuan, J., Peng, C. and Li, Y., 2014. Collagen as a double-edged sword in tumor progression. *Tumor Biology*. 35(4):2871-2882.
- Feller, L. 2013. Alcohol and oral squamous cell carcinoma: a clinical review. *South African Dental Journal*. 68(4):176-180.
- Gilkes, D. M., Bajpai, S., Chaturvedi, P., Wirtz, D., and Semenza, G. L. 2013. Hypoxia-inducible factor 1 (HIF-1) promotes extracellular matrix remodeling under hypoxic conditions by inducing P4HA1, P4HA2, and PLOD2 expression in fibroblasts. *Journal of Biological Chemistry*.288(15): 10819–10829.
- Gilkes, D. M., Semenza, G. L., and Wirtz, D. 2014. Hypoxia and the extracellular matrix: drivers of tumour metastasis. *Nature Reviews Cancer*. 14 (6): 430–439.
- Global Cancer Observatory (GCO). 2020. Lip and oral cavity cancer cases. WHO diakses pada laman <https://gco.iarc.fr/today/data/factsheets/cancers/1-Lip-oral-cavity-fact-sheet.pdf>. pada tanggal 29 Oktober 2021.
- Goertzen, C., Mahdi, H., Laliberte, C., Meirson, T., Eymael, D., Gil-Henn, H., and Magalhaes, M. 2018. Oral inflammation promotes oral squamous cell carcinoma invasion. *Oncotarget*.9(49): 29047–29063.
- Gunawan, G., Firman, R. N., Pramanik, F., and Nurrachman, A. S. 2020. Gambaran squamous cell carcinoma posterior mandibula pada radiograf panoramik.

Jurnal Radiologi Dentomaksilofasial Indonesia.4(1): 41.

- Guo, L., Cui, C., Zhang, K., Wang, J., Wang, Y., Lu, Y., Chen, K., Yuan, J., Xiao, G., Tang, B. and Sun, Y., 2019. Kindlin-2 links mechano-environment to proline synthesis and tumor growth. *Nature communications*. 10(1):1-20.
- Hafy, Z., Larasati, V., Puspita, R.S., Novizar, S., Haekal, M., Rafdi, A. and Sentani, R. 2018. Hubungan lama penyimpanan sampel arsip jaringan dalam blok parafin terfiksasi formalindengan kualitas hasil ekstraksidna mitokondria jaringan. *Sriwijaya Journal of Medicine*. 1(3):157-162.
- Han, Mingyang. 2015. Association of genetic polymorphisms in PTEN and additional interaction with alcohol consumption and smoking on colorectal cancer in Chinese population. *International Journal of Clinical and Experimental Medicine*. 8(11):21629.
- Harahap, A.S., 2018. Uji kualitas dan kuantitas DNA beberapa populasi pohon kapurSumatera. *Journal of Animal Science and Agronomy Panca Budi*. 2(2):1-6.
- Hashmi, S., Khan, S., and Vij, H. 2020. A histopathological evaluation of connective tissue stroma in oral squamous cell carcinoma: a histochemical study. *British Journal of Medical and Health Research*. 7(06): 1–13.
- Irmawati, A., Hadi, S. R., Haris, A., Rahaju, R. P., Budhy, T. I., and Balqis, N. F. 2019. The role of continuous moderate exercise on HSP70 expression and the transform cell number on oral squamous cell Mus Musculus injected by benzopyrene. *Pollution Research*. 38: 91–97.
- Iqbal S, Ahmed R, Adhami SU, Mumtaz A. 2011. Importance of polymerase chain reaction in diagnosis of pulmonary and extra-pulmonary tuberculosis. *Journal of Ayub Medical College Abbottabad:JAMC*. 23(1):73–76.
- Kabiraj, A., Khaitan, T., Bhowmick, D., Ginjaipally, U., Bir, A., & Chatterjee, K. 2016. Screening of oral potentially malignant disorders using exfoliative cytology: a diagnostic modality. *Journal of cancer epidemiology*. 1:1-10.
- Kadri, K. 2019. Polymerase Chain Reaction (PCR): principle and applications. in synthetic biology - new interdisciplinary science. *IntechOpen*. 1-15.
- Karuwal, R. L. (2021). Analisis kualitas dan kuantitas RNA total varietas kacang tunggak (*Vigna unguiculata l. walp*) asal kabupaten maluku barat daya. *BIOPENDIX: Jurnal Biologi, Pendidikan Dan Terapan*. 7(2):102-108.
- Kartika, A.I., 2018. Optimasi annealing temperature primer mRNA RECK dengan Metode One Step qRT-PCR. *Jurnal Labora Medika Vol*. 2(1):22-31.

- Kaur, Jatinder. 2010. Promoter hypermethylation in Indian primary oral squamous cell carcinoma. *International Journal of Cancer*. 127(10):2367-2373.
- Kisoda, S., Shao, W., Fujiwara, N., Mouri, Y., Tsunematsu, T., Jin, S., Arakaki, R., Ishimaru, N., and Kudo, Y. 2020. Prognostic *value* of partial EMT-related genes in head and neck squamous cell carcinoma by a bioinformatic analysis. *Oral Diseases*.26(6): 1149–1156.
- Khosravinia, H., Narasimha Murthy, H. N., Thertha Parasad, D., and Pirany, N. .2007.Optimizing factors influencing DNA extraction from fresh whole avian blood.*African Journal of Biotechnology*.6(4): 481–486.
- Kokkat, T. J., Patel, M. S., McGarvey, D., LiVolsi, V. A., & Baloch, Z. W. 2013. Archived formalin-fixed paraffin-embedded (FFPE) blocks: A valuable underexploited resource for extraction of DNA, RNA, and protein. *Biopreservation and biobanking*. 11(2):101–106.
- Kolenda, T., Rys, M., Guglas, K., Teresiak, A., Blizniak, R., Mackiewicz, J. and Lamperska, K., 2019. Quantification of long non-coding RNAs using qRT-PCR method-comparison of different cDNA synthesis methods and RNA stability. *Arch Med Sci J*. 17(4):1006-1015.
- Lee SJ, Kim KH, Park KK. 2014. Mechanisms of fibrogenesis in liver cirrhosis: The molecular aspects of epithelial-mesenchymal transition. *World J Hepatol*. 6:207-316.
- Lesmana, D., Tjahajawati, S., and Lubis, V. T. 2016. Saliva sebagai biomarker potensial diagnostik (saliva as a potential diagnostic of biomarker). *Dentika Dental Journal*.19(2):160–167.
- Li, Qingxian, Wang, Q., Zhang, Q., Zhang, J., Zhang, J. 2019. Collagen prolyl 4-hydroxylase 2 predicts worse prognosis and promotes glycolysis in cervical cancer. *American Journal of Translational Research*. 11(11):6938–6951.
- Li, Qun, Shen, Z., Wu, Z., Shen, Y., Deng, H., Zhou, C., and Liu, H. 2020. High *P4HA1* expression is an independent prognostic factor for poor overall survival and recurrent-free survival in head and neck squamous cell carcinoma. *Journal of Clinical Laboratory Analysis*. 34(3):1-10.
- Li, T., Mao, C., Wang, X., Shi, Y. and Tao, Y., 2020. Epigenetic crosstalk between hypoxia and tumor driven by HIF regulation. *Journal of Experimental & Clinical Cancer Research*. 39(1):1-25.
- Lin, J., Wu, X.-J., Wei, W.-X., Gao, X.-C., Jin, M.-Z., Cui, Y., Jin, W.-L., and Qiu, G.-Z. 2020. P4HA2 is associated with prognosis, promotes proliferation, invasion, migration and EMT in glioma. *BioRxiv*.1(1): 1–20.
- Lin, N.C., Hsien, S.I., Hsu, J.T. and Chen, M.Y., 2021. Impact on patients with oral

squamous cell carcinoma in different anatomical subsites: a single-center study in Taiwan. *Nature Scientific Reports*. 11(1):1-9.

- Liu, P., and Hwang, J.T.G. 2006. Quick calculation for sample size while controlling false discovery rate with application to microarray analysis. *Statistics Preprints*. 739-746.
- Luoto, K. R., Kumareswaran, R., and Bristow, R. G. 2013. Tumor hypoxia as a driving force in genetic instability. *Genome Integrity*. 4(1): 1-15.
- Makarov, V., and Gorlin, A. 2019. Meta-analysis of gene expression for development and validation of a diagnostic biomarker panel for oral squamous cell carcinoma. *Computational Biology and Chemistry*. 82: 74–79.
- Maksum, I. 2020. *Kajian Big Data Genom Manusia Indonesia Sebagai Upaya Penegakan Diagnosis Tingkat Molekul Dan Rasionalisasi*. Unpad Press (Issue January). Bandung.
- Mathur, G., Nain, S., and Sharma, P. 2015. Cancer : an overview. *Academic J. Cancer Res*. 8(1): 1–9.
- Matte, B.F., Kumar, A., Placone, J.K., Zanella, V.G., Martins, M.D., Engler, A.J. and Lamers, M.L., 2019. Matrix stiffness mechanically conditions EMT and migratory behavior of oral squamous cell carcinoma. *Journal of cell science*. 132(1):224360.
- Medawati, A. 2013. Kanker rongga mulut dan permasalahannya. *Insisivia Dental Journal*. 1: 87–90.
- MiniOne. 2019. PCR cycles analysis student guide. *Embi Tec by Science Lab Studios*. 1-18. diakses pada tanggal 30 Oktober 2021 pada laman <https://theminione.com/wp-content/uploads/2019/03/PCR-Cycle-Number-Student-Guide.pdf>
- Muz, B., Puente, D.P., Azab, F., and Azab, A. K. 2015. The role of hypoxia in cancer progression, angiogenesis, metastasis, and resistance to therapy. *Hypoxia Journal*. 3: 83.
- Mori, R., Wang, Q., Danenberg, K.D., Pinski, J.K., and Danenberg, P.V. 2008. Both β -actin and GAPDH are useful reference genes for normalization of quantitative RT-PCR in human FFPE tissue samples of prostate cancer. *The Prostate*. 68(14):1-10.
- Nagahashi, M., Shimada, Y., Ichikawa, H., Nakagawa, S., Sato, N., Kaneko, K., Homma, K., Kawasaki, T., Kodama, K., Lyle, S., Takabe, K., and Wakai, T. 2017. Formalin-fixed paraffin-embedded sample conditions for deep next generation sequencing. *Journal of Surgical Research*. 220: 125–132.

- Najafi, M., Farhood, B., Mortezaee, K., Kharazinejad, E., Majidpoor, J. and Ahadi, R., 2020. Hypoxia in solid tumors: a key promoter of cancer stem cell (CSC) resistance. *Journal of cancer research and clinical oncology*. 146(1):19-31.
- Nam, S.K., J.I.Y. Kwak, N. Han, K.H. Nam, A.N. Seo, H.S. Lee. 2014. Effects of fixation and storage of human tissue samples on nucleic acid preservation. *The Korean Journal of Pathology*. 48:231-250.
- Narayan Biswal, B., Narayan Das, S., Kumar Das, B., and Rath, R. 2017. Alteration of cellular metabolism in cancer cells and its therapeutic. *Journal of Oral and Maxillofacial Pathology*.21(3): 244–251.
- Neville, B. W., Damm, D. D., Allen, C. M., & Bouquot, J. E. 2015. *Oral and Maxillofacial Pathology* (4nd ed). W. B. Saunders Company: Philadelphia, Pennsylvania.
- Niaz K. 2017. Smokeless tobacco (paan and gutkha) consumption, prevalence, and contribution to oral cancer. *Epidemiology and Health Journal*. 39:1-9.
- Nolan, T., Huggett, J., Sanchez, E., 2013. *Good practice guide for the application of quantitative PCR (qPCR)*. 1st edition. LGC UK National Measurement System: United Kingdom.
- Nugroho, F.A.D., 2015. Identifikasi pola haplotipe DNA mitokondria udang jari (*Metapenaeus elegans*) Segara Anakan Kabupaten Cilacap Jawa Tengah menggunakan enzim restriksi HindIII. Skripsi. Universitas Islam Negeri Maulana Malik Ibrahim: Malang.
- Padma, R., Kalaivani, A., Sundaresan, S., and Sathish, P. 2017. The relationship between histological differentiation and disease recurrence of primary oral squamous cell carcinoma. *Journal of Oral and Maxillofacial Pathology*.21(3): 461.
- Pałasz, P., Adamski, Ł., Górska-Chrzastek, M., Starzyńska, A., and Studniarek, M. 2017. Contemporary diagnostic imaging of oral squamous cell carcinoma – a review of literature. *Polish Journal of Radiology*.82: 193–202.
- Palikša, S., Alzbutas, G. and Skirgaila, R., 2018. Decreased K m to dNTPs is an essential M-MuLV reverse transcriptase adoption required to perform efficient cDNA synthesis in One-Step RT-PCR assay. *Protein Engineering, Design and Selection*. 31(3):79-89.
- Pangaribuan, C., Sadhana, U., Astuti, M.D.K., Puspasari, D., Listiana, D.E., dan Miranti, I.P. 2019. Ekspresi p53 dan e-cadherin sebagai prediktor prognosis pada karsinoma sel skuamosa rongga mulut di rsup dr. Kariadi Semarang. *Jurnal Kedokteran RAFLESIA*. 5(1):7-17.
- Pankova, D., Jiang, Y., Chatzifrangkeskou, M., Vendrell, I., Buzzelli, J., Ryan, A.,

- Brown, C. and O'Neill, E., 2019. RASSF 1A controls tissue stiffness and cancer stem-like cells in lung adenocarcinoma. *The EMBO journal*. 38(13): 1-20.
- Patankar, S., Wankhedkar, D., Tripathi, N., Bhatia, S., & Sridharan, G. (2016). Extracellular matrix in oral squamous cell carcinoma: friend or foe? *Indian Journal of Dental Research*. 27(2): 184.
- Petrova, V., Annicchiarico-Petruzzelli, M., Melino, G., and Amelio, I. 2018. The hypoxic tumour microenvironment. *Oncogenesis*. 7(1): 1–14.
- Pindborg, J. J., Reichart P.A, Smith C.J, van der Waal I. 1997. *World Health Organization: Histological Typing of Cancer and Precancer of the Oral Mucosa*. 2nd Ed. Springer-Verlag. Germany.
- Poon, E., Harris, A.L. and Ashcroft, M., 2009. Targeting the hypoxia-inducible factor (HIF) pathway in cancer. *Expert reviews in molecular medicine*, 11:1-10.
- Pranata, N. 2019. Deteksi dini oral squamous sel carcinoma (OSCC) dengan menggunakan human papillomavirus (HPV) sebagai penandanya. *SONDE (Sound of Dentistry)*. 3(2): 108–117.
- Pytynia, Kristen B., Kristina R. Dahlstrom, and Erich M. Sturgis. 2014. Epidemiology of HPV-associated oropharyngeal cancer. *Oral Oncology*. 50(5):380-386.
- Qui G-Z, Jin M-Z, Dai J-X, Sun W, Feng J-H, Jin WL. 2017. Reprogramming of the tumor in the hypoxic niche: The emerging concept and associated therapeutic strategies. *Trends in Pharmacol Sci*. 38:669–686.
- Reis, P.P., Tokar, T., Goswami, R.S., Xuan, Y., Sukhai, M., Seneda, A.L., Móz, L.E., Perez-Ordóñez, B., Simpson, C., Goldstein, D. and Brown, D., 2020. A 4-gene signature from histologically normal surgical margins predicts local recurrence in patients with oral carcinoma: Clinical validation. *Scientific reports*. 10(1): 1-8.
- Semenza, G. L. .2013. HIF-1 mediates metabolic responses to intratumoral hypoxia and oncogenic mutations. *Journal of Clinical Investigation*. 123(9): 3664–3671.
- Siegel, R., Ma, J., Zou, Z., and Jemal, A. 2014. Cancer statistics, 2014. *CA: A Cancer Journal for Clinicians*. 64(1): 9–29.
- Silva BS, Yamamoto FP, Pontes FS, Cury SE, Fonseca FP, Pontes HA, Pinto-Junior DD. 2012. TWIST and p-Akt immunexpression in normal oral epithelium, oral dysplasia and in oral squamous cell carcinoma. *Med Oral Patol Oral Cir Bucal*. 17:9-34.

- Speight, P. M., and Farthing, P. M. 2018. The pathology of oral cancer. *British Dental Journal*.225(9): 841–847.
- Sritippho, Thanun, Pareena Chotjumlong, and Anak Iamaroon. 2015. Roles of human papillomaviruses and p16 in oral cancer. *Asian Pacific Journal of Cancer Prevention*. 16(15): 6193-6200.
- Thomson, P. J. 2018. Perspectives on oral squamous cell carcinoma prevention—proliferation, position, progression and prediction. *Journal of Oral Pathology and Medicine*.47(9): 803–807.
- Toss, M.S., Miligy, I.M., Gorringer, K.L. 2018. Prolyl-4-hydroxylase A subunit 2 (P4HA2) expression is a predictor of poor outcome in breast ductal carcinoma in situ (DCIS). *Br J Cancer*. 119:1518–1526.
- Walke, A. and Bhagat, T., 2017. To study the length, thickness, density and staining intensity of reticulin fibers in various grades of oral squamous cell carcinoma. *Dent. Oral Craniofacial Res*. 4(2)1-4.
- Wangmo, C., Charoen, N., Jantharapattana, K., Dechaphunkul, A. and Thongsuksai, P., 2020. Epithelial–mesenchymal transition predicts survival in oral squamous cell carcinoma. *Pathology & Oncology Research*. 26(3):1511-1518.
- Wei S. C., Fattet L., Tsai J. H., Guo Y., Pai V. H., Majeski H. E., Chen A. C., Sah R. L., Taylor S. S., Engler A. J. 2015. Matrix stiffness drives epithelial mesenchymal transition and tumour metastasis through a TWIST1-G3BP2 mechanotransduction pathway. *Nat. Cell Biol*. 17(1): 678.
- Wu, G., Chun, C., Sun, Q., Liu, Y., Han, J., Pan, C., Huang, Z. and Li, H. 2016. Correlation of epithelial-mesenchymal transition and MACC1 in squamous cell carcinoma of tongue. *Otorhinolaryngol Head Neck Surg J*. 1(4): 80-85.
- Wu, Y., Zhang, X., Wang, J., Ji, R., Zhang, L., Qin, J. .Zhang, X. 2021. P4HA2 promotes cell proliferation and migration in glioblastoma. *Oncology Letters*. 22:601.
- Xiong, A., and Liu, Y. 2017. Targeting hypoxia inducible factors-1 α as a novel therapy in Fibrosis. *Frontiers in Pharmacology*. 8: 326.
- Xiong, G., Deng, L., Zhu, J., Rychahou, P. G., and Xu, R. 2014. Prolyl-4-hydroxylase α subunit 2 promotes breast cancer progression and metastasis by regulating collagen deposition. *BMC Cancer*.14(1):1.
- Xu, W., Yang, Z.,and Lu, N.2015. A new role for the PI3K/Akt signaling pathway in the epithelial-mesenchymal transition. *Cell Adhesion & Migration*. 9(4):18.
- Yu, M., Cao, Y., & Ji, Y. 2017. The principle and application of new PCR

Technologies. In *IOP Conference Series: Earth and Environmental Science*. 100(1):1-5.

Yu C., Hung S., Lin H., Chiou W., Lee M., Liao H., Huang H., Ho H., and Su Y. 2017. Targeting the PI3K/AKT/mTOR signaling pathway as an effectively radiosensitizing strategy for treating human oral squamous cell carcinoma *in vitro* and *in vivo*. *Oncotarget*. 8: 68641-68653.

Zhou, J., Huang, S., Wang, L., Yuan, X., Dong, Q., Zhang, D., & Wang, X. 2017. Clinical and prognostic significance of HIF-1 α overexpression in oral squamous cell carcinoma: a meta-analysis. *World journal of surgical oncology*, 15(1), 104.

