

# LIU, HAI-KUN, PH.D.

## GENERAL INFORMATION



### Head

German Cancer Research Center, Division of Molecular Neurogenetics  
Im Neuenheimer Feld 581,  
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B02

## SCIENTIFIC EDUCATION & QUALIFICATION

| Year(s)   | Education  |
|-----------|--|
| 2000-2005 | Shanghai Institute for Biological Sciences, CAS. Shanghai, China. Ph.D |
| 1996-2000 | Shangdong Normal University, Jinan, China. Bachelor of Science         |

## PROFESSIONAL EXPERIENCE

| Year(s)   | Experience  |
|-----------|---|
| 2015-now  | Tenured Division Head, DKFZ, DKFZ-ZMBH Alliance.            |
| 2011-2015 | Helmholtz Young Investigator Group leader, DKFZ             |
| 2005-2010 | Postdoc, German Cancer Research Center, Heidelberg, Germany |

## OTHER QUALIFICATIONS/ROLES/RESPONSIBILITIES

| Year(s) |  |
|---------|--|
| 2015    | Chica and Heinz Schaller Award   |
| 2015    | ERC consolidator   |
| 2014    | Investigator in interdisciplinary neuroscience center in Heidelberg University |
| 2014    | EMBO Young Investigator  |
| 2014    | DKFZ international scientist award   |
| 2011    | Faculty in DKFZ-ZMBH alliance  |

## SELECTED PUBLICATIONS

- Rusu, P., Shao, C., Neuerburg, A., Acikgöz, A.A., Wu, Y., Zou, P., Phapale, P., Shankar, TS., Döring, K., Dettling, S., Körkel-Qu, H., Bekki, G., Costa, B., Guo, T., Friesen, O., Schlotter, M., Heikenwalder, M., Tschaharganeh, DF., Bukan, B., Kramer, G., Angel, P., Herold-Mende, C., Radlwimmer, B., Liu, H-K. GPD1 specifically marks dormant glioma stem cells with a distinct metabolic profile. **Cell Stem Cell**. 2019;25:241-257
- Feng W, Kawauchi D, Koekel-Qu H, Deng H, Serger E, Sieber L, Lieberman JA, Jimeno-Gonzalez S, Lambo S, Hanna B, Harim Y, Jansen M, Neuerburg A, Friesen O, Zuckermann M, Rajendran V, Gronych J, Ayrault O, Korshunov A, Jones DT, Kool M, Northcott P, Lichter P, Cortes-Ledesma F, Pfister SM, Liu HK. Chd7 is indispensable for mammalian brain development through activation of a neuronal differentiation program. **Nat Commun** 2017;8:14758
- Feng W, Liu HK. Revealing the hidden powers that fuel adult neurogenesis. **Cell Stem Cell** 2017;20(2):154-156
- Wang Q, Satomi K, Oh JE, Hutter B, Brors B, Diessl N, Liu HK, Wolf S, Wiestler O, Kleihues P, Koelsch B, Kindler-Rohrborn A, Ohgaki H. Braf Mutations Initiate the Development of Rat Gliomas Induced by Postnatal Exposure to N-Ethyl-N-Nitrosourea. **American Journal of Pathology** 2016;186(10):2569-2576
- Osswald M, Jung E, Sahn F, Solecki G, Venkataramani V, Blaes J, Weil S, Horstmann H, Wiestler B, Syed M, Huang L, Ratliff M, Karimian Jazi K, Kurz FT, Schmenger T, Lemke D, Gommel M, Pauli M, Liao Y, Haring P, Pusch S, Herl V, Steinhauser C, Krunic D, Jarahian M, Miletic H, Berghoff AS, Griesbeck O, Kalamakis G, Garaschuk O, Preusser M, Weiss S, Liu HK, Heiland S, Platten M, Huber PE, Kuner T, von Deimling A, Wick W, Winkler F. Brain tumour cells interconnect to a functional and resistant network. **Nature** 2015;528(7580):93-98

6. Zhu Z, Kahn MA, Weiler M, Blaes J, Jestaedt L, Geibert M, Zou P, Gronych J, Bernhardt O, Korshunov A, Bugner V, Lichter P, Radlwimmer B, Heiland S, Bendszus M, Wick W, Liu HK\*. Targeting self-renewal in high-grade brain tumors leads to loss of brain tumor stem cells and prolonged survival. **Cell Stem Cell** 2014;15(2):185-198
7. Feng W, Kahn MA, Bellvis P, Zhu Z, Bernhardt O, Herold-Mende C, Liu HK. The chromatin remodeler CHD7 regulates adult neurogenesis via activation of SoxC transcription factors. **Cell Stem Cell** 2013;13(1):62–72
8. Peterziel H, Müller J, Danner A, Barbus S, Liu HK, Radlwimmer B, Pietsch T, Lichter P, Schütz G, Hess J, Angel P. Expression of podoplanin in human astrocytic brain tumors is controlled by the PI3K-AKT-AP-1 signaling pathway and promoter methylation. **Neuro Oncol** 2012;14(4):426-39
9. Liu HK, Wang Y, Belz T, Bock D, Takacs A, Radlwimmer B, Barbus S, Reifenberger G, Lichter P, Schütz G. The nuclear receptor tailless induces long-term neural stem cell expansion and brain tumor initiation. **Genes Dev** 2010;24(7):683-695
10. Liu HK, Belz T, Bock D, Takacs A, Wu H, Lichter P, Chai MQ, Schütz G. The nuclear receptor tailless is required for neurogenesis in the adult subventricular zone. **Genes Dev** 2008;22(18):2473-2478

## PATENTS

- Liu H-K, Schütz G. Means and methods for treating or preventing brain tumors based on the nuclear receptor tailless (TLX), Patent No. EP07121641.0. US8404657B2
- Cheng Y, Liu H-K. Method For Labeling Oligonucleotide Probes” – priority submission date 27.09.16. Priority Application EP16190862.9. PCT Application PCT/EP2017/074505. Publication WO2018060249A1
- Cheng Y, Liu H-K. Labelling of Oligonucleotide Probes by Multiple-Way Ligation . submission date 13.04.17 Priority Application EP17 166 854.7. PCT Application PCT/EP2018/055422