**任瑞宝：**

上海血液学研究所所长，衰老与肿瘤国际研究中心主任，国家特聘专家、上海交通大学“王宽诚”讲席教授、上海交通大学医学院附属瑞金医院研究员、博士生导师；上海高水平地方高校重点创新核心团队负责人；基因组学国家重点实验室学术委员会委员，分子肿瘤国家重点实验室学术委员会委员；美国血液与肿瘤学杂志（JHO）、衰老与肿瘤（Aging and Cancer）杂志副主编；上海生物工程学会荣誉理事长

**简历：**

**学习经历**

1978-1983 北京医学院（现北京大学医学部），基础医学系，本科生

1983-1986 北京医科大学（现北京大学医学部）微生物系 ，医学硕士研究生

1988-1992 哥仑比亚大学医学院，微生物系，博士研究生,

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1994-2000 美国布兰戴斯大学(Brandeis University)生物系助理教授  
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**会员**  
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**委任职务**  
2005-2010 美国国家卫生研究院血液学项目评审委员会委员

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**发表论著：**

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**专利：**

1. Preparation and use of novel protein kinase inhibitors, PCT/CN15/77128 (美国、中国授权)
2. NRAS related cancer therapy, PCT/US15/64048 (美国授权)
3. 杂芳基酰胺类化合物、其制备方法、药用组合物及其应用, PCT/CN2018/113549
4. 杂芳基化合物的抗肿瘤多药耐药性、治疗癌症的用途和蛋白质-药物分子复合物，PCT/CN2018/083043
5. PTPN2 抑制剂在KRAS突变肿瘤中的应用，专利号：202010591889.0
6. 一种抗FLT3-ITD耐药突变型急性髓系白血病药物，专利号：202110610982.6

**科技成果转化：**

1. 抗肿瘤多药耐药新型微管抑制剂转让应世生物科技（上海）有限公司开发（里程碑付款2100万 + 销售提成）
2. NRAS细胞质膜转运调控蛋白抑制剂转让南京药石科技股份有限公司进行临床转化（里程碑付款2300万 + 销售提成）
3. 血液肿瘤基因突变组合（panel）检测技术转让江苏先声医学诊断有限公司（300万技术转让费+350万横向经费+10%销售提成）

**主持科研项目及人才计划项目：**

1. 国家自然科学基金重点项目，批准号: 81230055；题目：GOLGA7在NRAS突变白血病中合成致死作用的机制及靶向干预研究；资助金额：261万元；项目起止年月: 2023年01月至2027年12月；项目状态：在研；主持。
2. 国家自然科学基金面上项目，批准号: 82170147；题目：脂肪酸合成代谢在RAS诱导白血病过程中的作用；资助金额：55万元；项目起止年月: 2022年01月至2025年12月；项目状态：在研；主持
3. 上海市2020年度“科技创新行动计划”医学创新研究专项项目，批准号: 20Z11900200，题目：脐血细胞辅助治疗老年白血病的研究；资助金额：400万元；项目起止年月: 2020年12月至2024年12月；项目状态：在研；主持
4. 上海市卫生计生委协同创新集群计划，批准号: 2019CXJ01，题目：重大疾病的干细胞治疗研发与临床转化体系建立；资助金额：4996.30万元；项目起止年月: 2019年01月至2023年12月；项目状态：在研；轮值负责人
5. 国家自然科学基金面上项目，批准号: 81870112；题目：B淋巴细胞特异性BCR-ABL致癌通路的鉴定与机制研究；资助金额：55万元；项目起止年月: 2019年01月至2022年12月；项目状态：在研；主持
6. 上海高水平地方高校重点创新核心团队；2019-01~2026-12；负责人
7. 国家重点研发计划精准医学研究重点项目，批准号：2016YFC0902800；题目：基于组学特征谱的白血病分子分型研究，资助金额：320万元；项目起止年月: 2016年07月至2018年12月; 项目状态：已结题；主持。
8. 国家自然科学基金重点项目，批准号: 81530006；题目：IRF4/8在造血系统发育调控及白血病发生中的作用及机制；资助金额：327万元；项目起止年月: 2016年01月至2020年12月；项目状态：已结题；主持。
9. 国家自然科学基金重点项目，批准号: 81230055；题目：RAS相关肿瘤靶点鉴定及其化学干预；资助金额：290万元；项目起止年月: 2013年01月至2017年12月；项目状态：已结题；主持。
10. 上海市科委优秀学术带头人，批准号：12XD1403500题目：RAS相关肿瘤靶向治疗研究；资助金额：40万元；项目起止年月: 2012年07月至2014年07月；项目状态：已结题；主持。

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**代表性学术论文：**

1. Kou, X., Liu, J., Wang, D., Yu, M., Li, C., Lu, L., ... & Shi, S. (2022). Exocrine pancreas regeneration modifies original pancreas to alleviate diabetes in mouse models. *Science Translational Medicine*, *14*(656), eabg9170.
2. Ma, L., Chen, C., Liu, D., Huang, Z., Li, J., Liu, H., ... & Kou, X. (2023). Apoptotic extracellular vesicles are metabolized regulators nurturing the skin and hair. *Bioactive Materials*, *19*, 626-641.
3. Kou, X., Liu, J., Wang, D., Yu, M., Li, C., Lu, L., ... & Shi, S. (2022). Exocrine pancreas regeneration modifies original pancreas to alleviate diabetes in mouse models. *Science Translational Medicine*, *14*(656), eabg9170.
4. Zhao, L., Li, Y., Kou, X., Chen, B., Cao, J., Li, J., ... & Shi, S. (2022). Stem Cells from Human Exfoliated Deciduous Teeth Ameliorate Autistic-Like Behaviors of SHANK3 Mutant Beagle Dogs. *Stem Cells Translational Medicine*.
5. Li, W., Jiao, X., Song, J., Sui, B., Guo, Z., Zhao, Y., ... & Huang, Q. (2021). Therapeutic potential of stem cells from human exfoliated deciduous teeth infusion into patients with type 2 diabetes depends on basal lipid levels and islet function. *Stem cells translational medicine*, *10*(7), 956-967.
6. Yu, W., Chen, C., Kou, X., Sui, B., Yu, T., Liu, D., ... & Shi, S. (2021). Mechanical force-driven TNFα endocytosis governs stem cell homeostasis. *Bone Research*, *8*(1), 1-13.
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10. Miura, M., Gronthos, S., Zhao, M., Lu, B., Fisher, L. W., Robey, P. G., & Shi, S. (2003). SHED: stem cells from human exfoliated deciduous teeth. *Proceedings of the National Academy of Sciences*, *100*(10), 5807-5812. （被引用次数3458）
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12. Gronthos, S., Mankani, M., Brahim, J., Robey, P. G., & Shi, S. (2000). Postnatal human dental pulp stem cells (DPSCs) in vitro and in vivo. *Proceedings of the National Academy of Sciences*, *97*(25), 13625-13630. （被引用次数5451）

**研究方向：**

干细胞囊泡在疾病诊断与治疗中的应用；干细胞的临床治疗

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**代表性学术论文：**

1. Ma S, Wang S, Ye Y, Ren J, Chen R, Li W, Li J, Zhao L, Zhao Q, Sun G, Jing Y, Zuo Y, Xiong M, Yang Y, Wang Q, Lei J, Sun S, Long X, Song M, Yu S, Chan P, Wang J, Zhou Q, Belmonte JCI, Qu J\*, Zhang W\*, Liu GH\*. Heterochronic parabiosis induces stem cell revitalization and systemic rejuvenation across aged tissues. Cell Stem Cell. 2022. 29(6):990-1005.e10.
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11. Liang C, Liu Z, Song M, Li W, Wu Z, Wang Z, Wang Q, Wang S, Yan K, Sun L, Hishida T, Cai Y, Izpisua Belmonte JC, Guillen P, Chan P, Zhou Q, Zhang W\*, Qu J\*, Liu GH\*. Stabilization of Heterochromatin by CLOCK Promotes Stem Cell Rejuvenation and Cartilage Regeneration. Cell Research. 2021. 31(2):187-205.
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**代表性学术论文：**

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2. Fu, B., Liao, J., Chen, S., Li, W., Wang, Q., Hu, J., ... & Wu, Y. (2022). CRISPR–Cas9-mediated gene editing of the BCL11A enhancer for pediatric β0/β0 transfusion-dependent β-thalassemia. *Nature Medicine*, 1-8.
3. Zhang, J., Hu, Y., Yang, J., Li, W., Zhang, M., Wang, Q., ... & Huang, H. (2022). Non-viral, specifically targeted CAR-T cells achieve high safety and efficacy in B-NHL. *Nature*, 1-6.
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**代表性学术论文：**

1. Na Sun, Xiaoming Yu, Fang Li, Denghui Liu, Shengbao Suo, Weiyang Chen, Shirui Chen, Lu Song, Christopher D. Green, Joseph McDermott, Qin Shen, Naihe Jing & Jing-Dong J. Han. Inference of differentiation time for single cell transcriptomes using cell population reference data. Nature Communications. 2017 Nov 30;8(1):1856
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4. Lei Hou, Dan Wang, Di Chen, Yi Liu, Yue Zhang, Hao Cheng, Chi Xu, Na Sun, Joseph McDermott, and William B. Mair and Jing-Dong J. Han\*. A Systems Approach to Reverse Engineer Lifespan Extension by Dietary Restriction. Cell Metabolism, 2016, 8;23(3):529-40.
5. Yi Huang, Xiaoming Yu, Na Sun, Nan Qiao, Yaqiang Cao, Jerome D. Boyd-Kirkup, Qin Shen, and Jing-Dong J Han. Single-cell level spatial gene expression in the embryonic neural differentiation niche. Genome Research. 2015 Apr;25(4):570-81.
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7. Weizhong Chen, Yi Liu, Shanshan Zhu, Christopher D. Green, Gang Wei, Jing-Dong J. Han\*, Improved Nucleosome Positioning Algorithm iNPS for Accurate Nucleosome Positioning from Sequencing Data, Nature Communications 2014, doi:10.1038/ncomms5909.
8. Ming Su, Dali Han, Jerome D Boyd-Kirkup, Xiaoming Yu and Jing-Dong J Han\*，Evolution of Alu towards enhancers, Cell Reports, 2014, 7(2): 376-385
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10. Wei Zhang, Yi Liu, Na Sun, Dan Wang, Jerome Boyd-Kirkup, Xiaoyang Dou, Jing-Dong J Han\*, Integrating Genomic, Epigenomic and Transcriptomic Features Reveals Modular Signatures Underlying Poor Prognosis in Ovarian Cancer, Cell Reports, 2013, 4(3):542–553
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**代表性论文：（#代表第一作者，\*代表通讯作者）**

1. **Kai Wang**#, Ronald Melki, Mehdi Kabani\*. Growth phase-dependent changes in the size and infectivity of SDS-resistant Sup35p assemblies associated with the [PSI+ ] prion in yeast. Molecular Microbiology, 2019, 112(3):932-943.
2. **Kai Wang**#, Ronald Melki, Mehdi Kabani\*. A prolonged chronological lifespan is an unexpected benefit of the [PSI+] prion in yeast. PLoS One, 2017, 12(9):e0184905
3. **Kai Wang**#, Virginie Redeker, Karine Madiona, Ronald Melki and Mehdi Kabani\*. The 26S proteasome degrades the soluble but not the fibrillar form of the yeast prion Ure2p in vitro. PLoS One, 2015, 10(6):e0131789.
4. Xilai Wang#, Xin Zhou, **Kai Wang**, Xianying Cao\*. Structural characterisation and bioactivity of polysaccharides isolated from fermented Dendrobium officinale. J Sci Food Agric, 2021, 102(1):280-290
5. Xianshuo Cao#, Guizhen Wang#, **Kai Wang**, Lan Guo, Yang Cao, Xianying Cao\* and Yong Yang\*. Organic Phosphorous and Calcium Source Induce the Synthesis of Yolk-Shell Structured Microspheres of Calcium Phosphate with High-Specific Surface Area: Application in HEL Adsorption. Nanoscale Research Letter, 2020, 15(1):69.
6. Aline Le Roy#, **Kai Wang**, Béatrice Schaack, Peter Schuk, Cécile Breyton and Christine Ebel\*. AUC and Small-Angle Scattering for membrane proteins. Methods in Enzymology, 2015, 562:257-86.

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[10]. 中国老年学和老年医学学会抗衰老分会委员（2022.1-2027.1）

崔岩：

北京大学医学部基础医学专业学士，上海中医药大学中西医结合基础专业硕士，德国耶拿大学肿瘤细胞生物学博士，长期致力于神经纤维瘤病2型基因（*NF2*）编码产物merlin的信号通路和分子机理研究，在国际上首次提出了在小G蛋白Ras信号转导过程中，merlin起到“选择性Ras屏障”的作用，与Ras-GAP蛋白复合体（如*NF1*基因编码产物neurofibromin及其互作伙伴Spred1）共同抑制Ras最主要的下游通路分支Raf-MEK-ERK的活性。这一模型回答了一个长期令人困惑的问题：在Ras的信号转导过程中，Ras-GAP蛋白是如何实现与Raf蛋白家族有效竞争的？相关成果发表在国际知名刊物Oncogene和Human Molecular Genetics上。然而，merlin对Ras-ERK通路的调控尚不能解释merlin介导接触抑制的功能。目前，对merlin的关键分子机理仍在探索中，已有明确方向。未来研究方向除了肿瘤信号转导和分子机理方向，还将致力于治疗方向的转化研究。

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**研究方向：**

肿瘤信号转导及靶向治疗

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