

**General**

**Name：**Kefeng Dou  **Date of Birth:** Feb 08, 1956

**Gender:** Male  **Nationality:** P.R. China

**Major：**General Surgery and Organ Transplantation

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**Organization:** Department of Hepatobiliary Surgery, Xijing Hospital, Air Force Medical University (formerly named Fourth Military Medical University)

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**Education Background**

**Doctor：**Aug 1998-Jul 2001, Fourth Military Medical University, Surgery

**Master：**Aug 1985-Jul 1988, Fourth Military Medical University, Surgery

**Bachelor：**Aug 1977-Jul 1980, Fourth Military Medical University, Clinical Medicine

**Professional Experience**

Feb 1987: Department of General Surgery, Xijing Hospital, Fourth Military Medical University, Resident doctor.

Jun 1988: Department of General Surgery, Xijing Hospital, Fourth Military Medical University, Attending doctor.

Dec 1990: Department of Hepatobiliary Surgery, Xijing Hospital, Fourth Military Medical University, Associate Chief doctor.

Sept 1991-Mar 1992：Queen Mary Hospital, University of Hong Kong, Advanced study and training.

Dec 1993: Department of Hepatobiliary Surgery, Xijing Hospital, Fourth Military Medical University, Chief doctor.

Apr 1998-Jun 1998: Department of Transplantation and Immunology, Kyoto University, Japan, Advanced study and training.

**Academic Post**

Nov 2021-Present: Academician of Chinese Academy of Sciences

Dec 2022-Present: Academician of Chinese Academy of Medical Sciences

Dec 2010-Present: Vice-president of Surgical Branch of Chinese Medical Association (CMA)

Dec 2017-Present: Vice-president of Organ Transplant Physicians Branch of Chinese Medical Doctor Association (CMDA)

Dec 2016-Present: Leader of Xenotransplantation Group of Organ Transplantation Society of CMA

**Representative Academic Achievement**

With a great success in the fields of surgical treatment of hepatobiliary-pancreatic-splenic disease, especially in liver transplantation.

1. Established a new surgical approach: heterotopic auxiliary liver transplantation in splenic fossa.
2. Performed the first successful living donor liver transplantation in mainland of China.
3. Led the first implementation of combined liver-heart-kidney transplant and successful liver-pancreas-kidney transplant in Asia.
4. Carried out the first genetically engineered pig-to-monkey liver xenotransplantation in China.
5. Accomplished the first combined liver-kidney xenotransplant in pig-to-monkey preclinical trial in the world.
6. Led series preclinical trials of liver, kidney, heart, skin, cornea, nerve, abdominal wall, intervertebral disc, and skull xenotransplant in pig-to-monkeys in China.

**Representative Projects**

1. National Defense Science and Technology "173" project: Research on humanized replacement and treatment technology for critical and complex destruction of vital tissues and organs during wartime. (2023-JCJQ-ZD-118-00)
2. National "973" project: Immune tolerance mechanism and induction of xenogeneic liver transplantation. (2015CB554100)
3. National "863" project: Research on key technologies of xenogeneic organ and tissue transplantation. (2012AA021005)
4. National "11th Five-Year Plan" Science and Technology Support Project: Research on key technologies of Organ transplant-technological innovation research on living liver transplantation. (2008BAI60B02)
5. Key project of National Natural Science Foundation of China: Molecular mechanism of synergistic regeneration of hepatocytes and non-parenchymal cells after liver injury. (81030010)
6. National Health and Family Planning Commission Health industry research project: The establishment and application of thoracic and abdominal trauma endoscopic diagnosis and treatment technology system. (201302016)

**Representative Award**

1. Second prize of National Science and Technology Progress Award (2002, 2017).
2. Second prize of National Teaching Achievement Award (2005).
3. Ho Leung Ho Lee Technology Progress Award (2016)
4. First prize of Chinese Medical Science and Technology Award (2013)
5. Chinese Doctor Award (2006)
6. First prize of Shaanxi Province Science and Technology Award (2007, 2010, 2013, 2021)
7. First prize for Military Medical Achievements Award (1999)

**Publications**

**Books：**

1. 《Xenotransplantation》, People's Military Doctor Press, 2014. editor-in-chief. (Language: Chinese)

2. 《Living donor organ transplantation》, People's Military Doctor Press, 2007, editor-in-chief. (Language: Chinese)

3. 《Thoughts on diagnosis and treatment of abdominal trauma》, People's Military Doctor Press, 2013. editor-in-chief. (Language: Chinese)

4. 《Liver Disease and Liver Transplantation Guide》, Shaanxi People's Press, 2008. editor-in-chief. (Language: Chinese)

5. 《Clinical consideration on diagnosis and treatment of acute abdomen》, People's Military Doctor Press, 2011. editor-in-chief. (Language: Chinese)

6. 《General surgery hot topic lecture》, People's Military Doctor Press, 2010. editor-in-chief. (Language: Chinese)

7. 《Analysis of difficult and doubtful problems in general surgery》，People's Military Doctor Press, 2008. editor-in-chief. (Language: Chinese)

8. 《Living donor liver transplantation》, PLA health audio-visual Press, 2006. editor-in-chief. (Language: Chinese)

9. 《Surgery》, Higher Education Press, 2001, Associate Editor. (Language: Chinese)

10. 《Clinical living donor liver transplantation》, People's Military Doctor Press, 1999. Associate Editor. (Language: Chinese)

11. 《Somatic stem cells: Methods and Protocol》, Humana Press, 2012, Editor. (Language: English)

12. 《Cancer Stem Cells: The Cutting Edge》, In Tech, 2011, Editor. (Language: English)

**Representative Papers:**

1. Lin Z, Yang P, Hu Y, Xu H, Duan J, He F, Dou K, Wang L. RING finger protein 13 protects against nonalcoholic steatohepatitis by targeting STING-relayed signaling pathways. ***Nat Commun***. 2023 Oct 20;14(1):6635.
2. Fang Z, Xu H, Duan J, Ruan B, Liu J, Song P, Ding J, Xu C, Li Z, Dou K, Wang L. Short-term tamoxifen administration improves hepatic steatosis and glucose intolerance through JNK/MAPK in mice. ***Signal Transduct Target Ther***. 2023 Mar 3;8(1):94.
3. Wang L, Zhang X, Lin ZB, Yang PJ, Xu H, Duan JL, Ruan B, Song P, Liu JJ, Yue ZS, Fang ZQ, Hu H, Liu Z, Huang XL, Yang L, Tian S, Tao KS, Han H, Dou KF. Tripartite motif 16 ameliorates nonalcoholic steatohepatitis by promoting the degradation of phospho-TAK1. ***Cell Metab***. 2021 Jul 6;33(7):1372-1388.e7.
4. Duan JL, Ruan B, Yan XC, Liang L, Song P, Yang ZY, Liu Y, Dou KF, Han H, Wang L. Endothelial Notch activation reshapes the angiocrine of sinusoidal endothelia to aggravate liver fibrosis and blunt regeneration in mice. ***Hepatology***, 2018, 68(2): 677-690.
5. Ma PF, Gao CC, Yi J, Zhao JL, Liang SQ, Zhao Y, Ye YC, Bai J, Zheng QJ, Dou KF, Han H, Qin HY. Cytotherapy with M1-polarized macrophages ameliorates liver fibrosis by modulating immune microenvironment in mice. ***J Hepatol***, 2017, 67(4):770-779.
6. Zhang X, Cooper DKC, Dou K. Genetically-engineered pig-to-human organ transplantation: a new beginning. ***Sci Bull (Beijing)***. 2022 Sep 30;67(18):1827-1829.
7. He F, Guo FC, Li Z, Yu HC, Ma PF, Zhao JL, Feng L, Li WN, Liu XW, Qin HY, Dou KF, Han H. Myeloid-specific disruption of recombination signal binding protein Jκ ameliorates hepatic fibrosis by attenuating inflammation through cylindromatosis in mice. ***Hepatology***. 2015 Jan;61(1):303-14.
8. Yu HC, Qin HY, He F, Wang L, Fu W, Liu D, Guo FC, Liang L, Dou KF, Han H. Canonical notch pathway protects hepatocytes from ischemia/reperfusion injury in mice by repressing reactive oxygen species production through JAK2/STAT3 signaling. ***Hepatology***. 2011 Sep 2;54(3):979-88.
9. Wang L, Wang CM, Hou LH, Dou GR, Wang YC, Hu XB, He F, Feng F, Zhang HW, Liang YM, Dou KF, Han H. Disruption of the transcription factor recombination signal-binding protein-Jkappa (RBP-J) leads to veno-occlusive disease and interfered liver regeneration in mice. ***Hepatology***. 2009 Jan;49(1):268-77.
10. Ye YC, Zhao JL, Lu YT, Gao CC, Yang Y, Liang SQ, Lu YY, Wang L, Yue SQ, Dou KF, Qin HY, Han H. Notch signaling via Wnt regulates the proliferation of alternative, CCR2-independent tumor-associated macrophages in hepatocellular carcinoma. ***Cancer Res***, 2019, 7(2): 1691.
11. Zhang X, Wang Q, Zhao J, Li X, Peng W, Yang Z, Lin Z, Yang L, Ding R, Tao K, Dou KF. The resurgent landscape of xenotransplantation of pig organs in nonhuman primates. ***Sci China Life Sci***. 2020, 11427-019-1806.
12. Tian Z, Xu C, He W, Lin Z, Zhang W, Tao K, Ding R, Zhang X, Dou K. The deubiquitinating enzyme USP19 facilitates hepatocellular carcinoma progression through stabilizing YAP. ***Cancer Lett***. 2023 Nov 28;577:216439.
13. Zhang Z, Li X, Sun W, Yue S, Yang J, Li J, Ma B, Wang J, Yang X, Pu M, Ruan B, Zhao G, Huang Q, Wang L, Tao K, Dou K. Loss of exosomal miR-320a from cancer-associated fibroblasts contributes to HCC proliferation and metastasis. ***Cancer Lett.*** 2017 Jul 1;397:33-42.
14. Ji R, Zhang N, You N, Li Q, Liu W, Jiang N, Liu J, Zhang H, Wang D, Tao K, Dou K. The differentiation of MSCs into functional hepatocyte-like cells in a liver biomatrix scaffold and their transplantation into liver-fibrotic mice. ***Biomaterials***. 2012 Dec;33(35):8995-9008.
15. Zhang Z, Li X, Zhang H, Zhang X, Chen H, Pan D, Ji H, Zhou L, Ling J, Zhou J, Yue S, Wang D, Yang Z, Tao K, Dou K. Cytokine profiles in Tibetan macaques following α-1,3-galactosyltransferase-knockout pig liver xenotransplantation. ***Xenotransplantation***. 2017 Sep;24(5).