药学院（葡萄酒学院）教师个人情况登记表

张寅

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个人简介：

张寅，男，教授，硕士生导师，2019 年荣获“泰山学者青年专家”称号。主要从事肿瘤血管新生，肿瘤微环境与代谢等研究工作。目前，主持山东省自然科学基金面上项目 1 项，参与山东省重大项目 1 项，市级项目多项。在 PNAS，Nature Communications， Gut，等国际权威期刊发表 SCI 论文 25 篇。

学习经历：

2009 年 1 月至 2013 年 9 月，瑞典卡罗琳斯卡医学院，医学科学专业，博士研究生

2015 年 9 月至 2008 年 7 月，北京师范大学，细胞生物学专业，硕士研究生

2000 年 9 月至 2004 年 7 月，西北农林科技大学，生物技术专业，本科

工作经历：

2019 年 3 月至今，滨州医学院，生化与分子生物学专业，教授

2013 年 11 月至 2018 年 12 月，瑞典卡罗琳斯卡医学院，博士后

主讲课程：

1、《肿瘤血管生物学》（研究生 选修课）

研究方向：

1.抗肿瘤血管新生的机制和临床应用

2.肿瘤代谢在癌症发展中的机制研究

科研项目：

1、主持山东省自然科学基金面上项目--肾特异性钙粘蛋白 CDH16 在肾癌发展和转移中的作用和分子机制研究，ZR2021MH292

代表性论文及专利：

1. Kayoko Hosaka, Yunlong Yang, Takahiro Seki, Qiqiao Du, Xu Jing, Xingkang He, Jieyu Wu, **Yin Zhang**, Hiromasa Morikawa, Masaki Nakamura, Martin Scherzer, Xiaoting Sun, Yuanfu Xu, Tao Cheng, Xuri Li, Xialin Liu, Qi Li, Yizhi Liu, An Hong, Yuguo Chen, Yihai Cao. Therapeutic paradigm of dual targeting VEGF and PDGF for effectively treating FGF-2 off-target tumors. **Nature Communications** *2020 July 24;1:1-15.*

2. Iris Uribesalgo, David Hoffmann, **Yin Zhang**, Anoop Kavirayani , Jelena Lazovic , Judit Berta , Maria Novatchkova , Tsung-Pin Pai , Reiner A Wimmer , Viktória László, Daniel Schramek, Rezaul Karim, Luigi Tortola, Sumit Deswal, Lisa Haas, Johannes Zuber, Miklós Szucs, Keiji Kuba, Balazs Dome, Yihai Cao, Bernhard J Haubner & Josef M Penninger. Apelin inhibition prevents resistance and metastasis associated with anti-angiogenic therapy。**EMBO Molecular Medicine**. e9266 | 2019

3. Patrik Andersson, Yunlong Yang, Kayoko Hosaka, **Yin Zhang**, Carina Fischer, Harald Braun, Shuzhen Liu, Guohua Yu, Shihai Liu, Rudi Beyaert, Mayland Chang, Qi Li, and . Yihai Cao. Molecular mechanisms of IL-33–mediated stromal interactions in cancer metastasis. *October 18,2018,**JCI Insight.** 2018;3(20):e122375.*

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6. *Qiu M, Wang D, Liang W, Liu L,* ***Zhang Y****, Chen X, Sang DK, Xing C, Li Z, Dong B, Xing F, Fan D, Bao S, Zhang H, Cao Y. Novel concept of the smart NIR-light-controlled drug release of black phosphorus nanostructure for cancer therapy.* ***Proc Natl Acad Sci U S A.*** *2018 Jan 16;115(3):501-506. doi: 10.1073/pnas.1714421115. Epub 2018 Jan 2.*

7. *Masaki Nakamura,* ***Yin Zhang****, Yunlong Yang, Ceylan Sonmez, Wenyi Zheng, Guichun Huang, Takahiro Seki, Hideki Iwamoto, Bo Ding, Linlin Yin, Theodoros Foukakis, Thomas Hatschek, Xuri Li, Kayoko Hosaka, Jiaping Li, Guohua Yu, Xinsheng Wang, Yizhi Liu, and Yihai Cao. Off-tumor targets compromise antiangiogenic drug sensitivity by inducing kidney erythropoietin production.* ***Proc Natl Acad Sci U S A.*** *2017 ; published ahead of print October 23, 2017, doi:10.1073/pnas.1703431114.*

8. ***Zhang Y****, Sun M*, Huang G*, Yin L, Lai Q, Yang Y, Xing X, Yu G, Sun Y, Wang X, Nie G, Liu Y, Cao Y. Maintenance of antiangiogenic and antitumor effects by orally active low-dose capecitabine for long-term cancer therapy.* ***Proc Natl Acad Sci U S A.*** *2017 Jun 27;114(26):E5226-E5235. doi: 10.1073/pnas.1705066114. Epub 2017 Jun 12. PMID:28607065.*

9. *Yang Y*,* ***Zhang Y****, Iwamoto H, Hosaka K, Seki T, Nakamura M, et al. Discontinuation of anti-VEGF treatment triggers host VEGF-dependent revascularization-induced metastasis.* ***Nature Communications****. 2016 Sep 1;7:12680*

10. Yang Y*, Andersson P*, Hosaka K, **Zhang Y**, Cao R, Iwamoto H, et al. The PDGF-BB-SOX7 axis-modulated stromal immunocytokine IL-33 promotes metastasis

through activation of tumour-associated macrophages. **Nature Communications** *2016 May 6;7:11385.*

11. **Yin Zhang***, Yunlong Yang*, Kayoko Hosaka, Guichun Huang, Jingwu Zang, Fang Chen, Yun Zhang, Nilesh Samani, and Yihai Cao. Endocrine vasculatures are preferable targets of an anti-tumor ineffective low-dose of anti-VEGF therapy. ***Natl. Acad. Sci. U.S.A.*** *2016 April 12; 113 (15).*

12. Yang X, **Zhang Y**, Hosaka K, Andersson P, Wang J, Tholander F, *et al*. VEGF-B promotes cancer metastasis through a VEGF-A-independent mechanism and serves as a marker of poor prognosis for cancer patients. ***Proc. Natl. Acad. Sci. U.S.A.*** *2015 Jun;112(22):E2900-9.*

13. Hideki Iwamoto, **Yin Zhang**, Takahiro Seki, Yunlong Yang, Masaki Nakamura, Jian Wang, Xiaojuan Yang, Takuji Torimura, Yihai Cao. PlGF-induced VEGFR1-dependent vascular remodeling determines opposing antitumor effects and drug resistance to Dll4-Notch inhibitors. ***Science Advances*** 10 Apr 2015: Vol. 1 no. 3 e1400244 DOI: 10.1126/sciadv.1400244

14. Sharon Lim*, **Yin Zhang*,** Danfang Zhang*, Fang Chen*, Kayoko Hosaka*, Ninghan Feng, Takahiro Seki, Patrik Andersson, Jingrong Li, Jingwu Zang, Baocun Sun and Yihai Cao. VEGFR2-mediated vascular dilation as a mechanism of VEGF-induced anemia and bone marrow cell mobilization. ***Cell Reports*** *2014 Oct;9(2):569-80.*

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17. Xiaojuan Yang, **Yin Zhang**, Yunlong Yang, Sharon Lim, Ziquan Cao, Janusz Rak, and Yihai Cao. Vascular endothelial growth factor-dependent spatiotemporal dual roles of placental growth factor in modulation of angiogenesis and tumor growth. **Proc Natl Acad Sci U S A.** August 5, 2013, doi:10.1073/pnas.1309629110.

18. Yang Y***, Zhang Y***, Cao Z, Ji H, Yang X, Iwamoto H, Wahlberg E, Länne T, Sun B, Cao Y. Anti-VEGF- and anti-VEGFR- induced vascular alteration in

mouse healthy tissues. **Proc Natl Acad Sci U S A**. 2013 Jul 16;110(29):12018-23. ***(*Part of PhD thesis)**

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24. Zhang D, Hedlund EM, Lim S, Chen F, **Zhang Y**, Sun B, Cao Y. Antiangiogenic agents significantly improve survival in tumor-bearing mice by increasing tolerance to chemotherapy-induced toxicity. **Proc Natl Acad Sci U S A.** 2011;108:4117-4122.