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Dear Editors,

We would like to ask you to consider the attached manuscript titled '**Orthotopic Rat Kidney Transplantation**' for publication in *Jove*. The manuscript, including related data and figures, has not been previously published and is not under consideration for publication elsewhere.


The rat kidney transplant model has served as a useful tool to investigate the immunological phenomena of rejection and tolerance. Our laboratory has more than a decade of experience in performing kidney and liver transplants in rats. Like many surgical procedures, this operation can be performed in a number of different ways, and through trial and error we have successfully developed a unique surgical approach that leads to a 100% survival in syngenic animals.

Existing literature about this procedure is often presented in a summarized fashion. This manuscript compares different approaches and potential pitfalls to rat kidney transplantation and provides readers with a detailed step-by-step protocol in order to perform this procedure successfully. We are convinced it will be of interest to your readership.

Please do not hesitate to contact us directly if you have additional questions.

Thank you in advance for your consideration.

Kind regards,


Zhaoli Sun, M.D. Ph.D.