Improving the outcome of nerve repair will require close cooperation between surgeon and scientist. Skyrocketing clinical demands on the surgeon and the rapidly increasing sophistication of neuroscience have interacted to form two distinct cultures. Nerve Repair bridges these cultures by providing a translational review of the clinical and basic science relevant to nerve repair. It provides the clinician with an understanding of pertinent research, and the basic scientist with an overview of the clinical manifestations of nerve injury and regeneration. It is also grounded in the history of peripheral nerve surgery and biology so that modern concepts can be understood in the context of their origins.