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Modulation and Plasticity of Rhythm-Generating Networks

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Chapter 1: Ramirez JM, Doi A, Garcia AJ 3rd, Elsen FP, Koch H, Wei A: The Building blocks of breathing. *Comprehensive Physiology*: 2012 Oct;2(4):2683-731

Chapter 2: Koch H*, Zanella S*, Elsen GE, Lincoln Smith, Atsushi Doi, Garcia III A, Wei AD, Xun R., Kirsch S, Gomez CM, Hevner RF and Ramirez JM: Stable respiratory activity requires both P/Q-type and N-type voltage-gated Calcium channels. *The Journal of Neuroscience*: 2013, 33(8): 3633-3645

Chapter 3: Koch H, Caughie C, Elsen F, Doi A, Garcia 3rd A, Zanella S and Ramire JM: Prostaglandin E₂ differentially modulates the central control of eupnoea, sighs and gasping in mice. *The Journal of Physiology*: 2015 593, (1), pages 305–319

Chapter 4: Koch H*, Huh S-E*, Elsen F, Carroll M, Hodge R, Bedogni F, Turner M, Hevner F and Ramirez JM: Prostaglandin E₂ induced synaptic plasticity in neocortical networks of organotypic slice cultures. *The Journal of Neuroscience*: 2010, 30(35):11678-11687

Chapter 5: Koch H, Garcia AJ 3rd, Ramirez JM. Network reconfiguration and neuronal plasticity in rhythm-generating networks. *Integrative Comparative Biology*: 2011 Dec; 51(6):856-68. Review