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Cover: The October through December 2010 Highlighted Topics series examines the mechanisms and modulators of temperature regulation in a series of review articles written by a panel of international experts. This series was conceived and edited by Guest Editor Craig Crandall and Coordinating Associate Editor Kevin Kregel. We acknowledge Steve Graepel, illustrator of the cover design. This illustration is copyrighted by Steve Graepel and reproduced with permission.

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Epicardial fat gene expression after aerobic exercise training in pigs with coronary atherosclerosis: relationship to visceral and subcutaneous fat <i>J. M. Company, F. W. Booth, M. H. Laughlin, A. A. Arce-Esquivel, H. S. Sacks, S. W. Bahouth, and J. N. Fain</i>	1904
Fatty diabetic lung: functional impairment in a model of metabolic syndrome <i>C. Yilmaz, P. Ravikumar, D. J. Bellotto, R. H. Unger, and C. C. W. Hsia</i>	1913
Distribution of myogenic progenitor cells and myonuclei is altered in women with vs. those without chronically painful trapezius muscle <i>A. L. Mackey, L. L. Andersen, U. Frandsen, C. Suetta, and G. Sjøgaard</i>	1920
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Recruitment and rate-coding strategies of the human genioglossus muscle <i>J. P. Saboisky, A. S. Jordan, D. J. Eckert, D. P. White, J. A. Trinder, C. L. Nicholas, S. Gautam, and A. Malhotra</i>	1939



- Vertical distribution of specific ventilation in normal supine humans measured by oxygen-enhanced proton MRI
R. C. Sá, M. V. Cronin, A. C. Henderson, S. Holverda, R. J. Theilmann, T. J. Arai, D. J. Dubowitz, S. R. Hopkins, R. B. Buxton, and G. K. Prisk 1950
- Lung structure phenotype variation in inbred mouse strains revealed through in vivo micro-CT imaging
J. Thiesse, E. Namati, J. C. Sieren, A. R. Smith, J. M. Reinhardt, E. A. Hoffman, and G. McLennan 1960
- Inhalation heterogeneity from subresidual volumes in elite divers
I. Muradyan, S. H. Loring, M. Ferrigno, P. Lindholm, G. P. Topulos, S. Patz, and J. P. Butler 1969

INNOVATIVE METHODOLOGY

- In vivo⁴ assessment of muscle fascicle length by extended field-of-view ultrasonography
M. Noorkoiv, A. Stavnsbo, P. Aagaard, and A. J. Blazevich 1974

HIGHLIGHTED TOPIC

Mechanisms and Modulators of Temperature Regulation

- Review:** Heat stroke: Role of the systemic inflammatory response
L. R. Leon and B. G. Helwig 1980
- Review:** Mechanisms of aerobic performance impairment with heat stress and dehydration
S. N. Cheuvront, R. W. Kenefick, S. J. Montain, and M. N. Sawka 1989

POINT: COUNTERPOINT

The dominant contributor to systemic hypertension: chronic activation of the sympathetic nervous system vs. activation of the intrarenal renin-angiotensin system

- Point:** Chronic activation of the sympathetic nervous system is the dominant contributor to systemic hypertension
M. Esler, E. Lambert, and M. Schlaich 1996
- Counterpoint:** Activation of the intrarenal renin-angiotensin system is the dominant contributor to systemic hypertension
L. G. Navar 1998
- Rebuttal from Esler, Lambert, and Schlaich** 2000
- Rebuttal from Navar** 2001
- Comments on Point:Counterpoint:** The dominant contributor to systemic hypertension: Chronic activation of the sympathetic nervous system vs. Activation of the intrarenal renin-angiotensin system
H. Kobori, N. J. Christensen, C. Julien, T. S. Moreira, A. C. Takakura, V. R. Antunes, M. A. P. Fontes, C. H. Xavier, N. Charkoudian, E. C. Hart, J. N. Barnes, M. J. Joyner, D. S. Goldstein, C. E. Negrao, M. V. Negrao, J. N. Cohn, A. Rohrwasser, V. A. Braga, P. Li, J. W. Osborn, G. D. Fink, Z. Szelényi, E. A. Wehrwein, A. W. Cowley Jr., D. Zhao, G. A. Head, S. L. Burke, P. Bie, M. Damkjaer, M. L. Mathai, M. N. Murphy, Q. Fu, B. D. Levine, S. D. Crowley, R. A. Gonzalez-Villalobos, S. Fuches, R. R. Campos, C. T. Bergamaschi 2003
- Letters to the Editor:** Last Word on Counterpoint: Activation of the intrarenal renin-angiotensin system is the dominant contributor to systemic hypertension
L. Gabriel Navar 2015
- Last Word on Point:** Chronic activation of the sympathetic nervous system is the dominant contributor to systemic hypertension
M. Esler 2016