

# Stanford

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## Creed Stary

Associate Professor of Anesthesiology, Perioperative and Pain Medicine (MSD) and, by courtesy, of Ophthalmology

### CLINICAL OFFICE (PRIMARY)

- **Anesthesia Department**

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### Bio

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### CLINICAL FOCUS

- Anesthesia

### ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Anesthesiology, Perioperative and Pain Medicine
- Associate Professor - University Medical Line (By courtesy), Ophthalmology
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

### ADMINISTRATIVE APPOINTMENTS

- Asst. Clinical Director, Byers Eye Institute, Anesthesiology, (2013- present)

### HONORS AND AWARDS

- NIH R01NS112642 "Cofilin Signaling in Hemorrhagic Stroke", National Institutes of Health (6/15/2020-03/31/2025)
- NIH R01NS107445 "Non-coding RNA regulation of sex differences in stroke", National Institutes of Health (7/1/2019-6/30/2024)
- Fellow to Faculty Transition Award, 14FTF- 19970029, American Heart Association (7/2014 - 6/2019)
- T32 Training Grant in Anesthesia Research and Medicine, National Institutes of Health (7/2012-6/2014)
- Travel Award, Best Scientific Abstract, Association of University Anesthesiologists (3/2014)
- Best Scientific Presentation, Western Anesthesia Residents Conference (5/2012)
- Best Clinical Abstract, Western Anesthesia Residents Conference (5/2012)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Association of University Anesthesiologists (2016 - present)
- Member, American Heart Association (2014 - present)
- Member, International Anesthesia Research Society (2014 - present)

- Member, Society for Neuroscience (2013 - present)
- Member, Society for Neuroscience in Anesthesiology and Critical Care (2012 - present)
- Member, American Society of Anesthesiologists (2009 - present)
- Member, American College of Sports Medicine (1995 - present)
- Member, American Physiological Society (1994 - present)

## PROFESSIONAL EDUCATION

- Residency: UCSD Anesthesiology Residency (2012) CA
- Internship: University of Hawaii Transitional Year (2009) HI
- Medical Education: University of California San Diego School of Medicine (2008) CA
- Board Certification: Anesthesia, American Board of Anesthesiology (2014)
- Board Certification, American Board of Anesthesiology (2014)
- PhD, UC San Diego , Biomedicine (2006)
- BS, UC San Diego , Animal Physiology and Neuroscience (1997)
- BA, UC San Diego , Psychology (1997)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

We are interested in finding new strategies to promote neuronal survival and improve functional outcome following injury to the brain. The brain consists of several different cell types, the most abundant of which are astrocytes, specialized glial cells that play a vital role in regulating neuronal function and homeostasis. Specifically, we are focused on determining the role of non-coding RNA's in: 1) astrocyte-mediated protection and recovery of brain function following ischemic injury, and; 2) gender differences in severity of injury and recovery from stroke.

## Publications

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### PUBLICATIONS

- **Ultraflexible endovascular probes for brain recording through micrometer-scale vasculature.** *Science (New York, N.Y.)*  
Zhang, A., Mandeville, E. T., Xu, L., Stary, C. M., Lo, E. H., Lieber, C. M.  
2023; 381 (6655): 306-312
- **Sexual Dimorphism in Brain Sirtuin-1 and m6A Methylated Sirtuin-1 mRNA, and in Protection with Post-Injury Anti-miR-200c treatment, after Experimental Stroke in Aged Mice.** *Aging and disease*  
Xu, L., Sun, X., Griffiths, B., Voloboueva, L., Valdes, A., Dobrenski, M., Min, J. J., Stary, C. M.  
2023; 14 (3): 892-903
- **MicroRNA-494 augments fibrotic transformation of human retinal pigment epithelial cells and targets p27 with cell-type specificity.** *Frontiers in ophthalmology*  
Leng, T., Kamboj, G., Sun, X., Chang, H., Davda, P., Greer, M., Stary, C. M.  
2023; 3: 1168650
- **Inhibition of microRNA-200c preserves astrocyte sirtuin-1 and mitofusin-2, and protects against hippocampal neurodegeneration following global cerebral ischemia in mice.** *Frontiers in molecular neuroscience*  
Griffiths, B., Xu, L., Sun, X., Greer, M., Murray, I., Stary, C.  
2022; 15: 1014751
- **MiR-182 Inhibition Protects Against Experimental Stroke in vivo and Mitigates Astrocyte Injury and Inflammation in vitro via Modulation of Cortactin Activity.** *Neurochemical research*  
Alhadidi, Q. M., Xu, L., Sun, X., Althobaiti, Y. S., Almalki, A., Alsaab, H. O., Stary, C. M.  
2022

- **Expression of miR-200c corresponds with increased reactive oxygen species and hypoxia markers after transient focal ischemia in mice.** *Neurochemistry international*  
Arvola, O., Griffiths, B., Rao, A., Xu, L., Pastroudis, I., Stary, C. M.  
2021; 105146
- **Stem Cell-Derived Exosomes Protect Astrocyte Cultures From in vitro Ischemia and Decrease Injury as Post-stroke Intravenous Therapy.** *Frontiers in cellular neuroscience*  
Sun, X., Jung, J. H., Arvola, O., Santoso, M. R., Giffard, R. G., Yang, P. C., Stary, C. M.  
2019; 13: 394
- **Nursing Markedly Protects Postpartum Mice From Stroke: Associated Central and Peripheral Neuroimmune Changes and a Role for Oxytocin.** *Frontiers in neuroscience*  
Stary, C. M., Xu, L., Voloboueva, L. A., Alcántara-Hernández, M., Arvola, O. J., Idoyaga, J., Giffard, R. G.  
2019; 13: 609
- **Age-dependent sexual dimorphism in hippocampal cornu ammonis-1 perineuronal net expression in rats** *BRAIN AND BEHAVIOR*  
Griffiths, B. B., Madden, A. K., Edwards, K. A., Zup, S. L., Stary, C. M.  
2019; 9 (5)
- **Elucidating sex differences in response to cerebral ischemia: immunoregulatory mechanisms and the role of microRNAs** *PROGRESS IN NEUROBIOLOGY*  
Kaidonis, G., Rao, A. N., Ouyang, Y., Stary, C. M.  
2019; 176: 73–85
- **Post-injury inhibition of miR-181a promotes restoration of hippocampal CA1 neurons after transient forebrain ischemia in rats.** *eNeuro*  
Griffiths, B. B., Ouyang, Y. B., Xu, L. n., Sun, X. n., Giffard, R. G., Stary, C. M.  
2019
- **Inhibition of miR-181a protects female mice from transient focal cerebral ischemia by targeting astrocyte estrogen receptor- $\alpha$ .** *Molecular and cellular neurosciences*  
Stary, C. M., Xu, L., Li, L., Sun, X., Ouyang, Y., Xiong, X., Zhao, J., Giffard, R. G.  
2017; 82: 118-125
- **Editorial: Reviews in cellular neuropathology 2023: cerebral ischemia.** *Frontiers in cellular neuroscience*  
Salinska, E., Stary, C.  
2024; 18: 1420026
- **Sexual Dimorphism Between Aged Mice in Activity of MicroRNA-181a, Bcl2 and Bcl2 m6A Methylated mRNA After Experimental Stroke**  
Stary, C., Greer, M., Xu, L., Sun, X., Murray, I.  
LIPPINCOTT WILLIAMS & WILKINS.2023: 594
- **Exosomes as perioperative therapeutics to limit organ injury.** *British journal of anaesthesia*  
Owen, A., Stary, C. M., Gross, E. R.  
2023
- **A human TRPV1 genetic variant within the channel gating domain regulates pain sensitivity in rodents.** *The Journal of clinical investigation*  
He, S., Zambelli, V. O., Sinharoy, P., Brabenec, L., Bian, Y., Rwere, F., Hell, R. C., Stein Neto, B., Hung, B., Yu, X., Zhao, M., Luo, Z., Wu, et al  
2022
- **Efficacy of post-injury anti-miR-181a and anti-miR-200c intravenous treatment in protection against experimental stroke in aged mice.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*  
Griffiths, B., Xu, L., Stary, C.  
2022; 36 Suppl 1
- **Sex-differences and cell type-specific alterations in brain Bcl2 expression after transient focal cerebral ischemia in aged mice.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*  
Griffiths, B., Xu, L., Stary, C.  
2022; 36 Suppl 1
- **Synthesis and Development of a Novel First-in-Class Cofilin Inhibitor for Neuroinflammation in Hemorrhagic Brain Injury.** *ACS chemical neuroscience*  
Alaqel, S. I., Dlamini, S., Almarghalani, D. A., Shettigar, A., Alhadidi, Q., Kodithuwakku, S. H., Stary, C., Tillekeratne, L. M., Shah, Z. A.

2022

- **Extracellular vesicle-derived miRNA as a novel regulatory system for bi-directional communication in gut-brain-microbiota axis.** *Journal of translational medicine*  
Zhao, L., Ye, Y., Gu, L., Jian, Z., Stary, C. M., Xiong, X.  
2021; 19 (1): 202
- **MicroRNA-338 inhibition protects against focal cerebral ischemia and preserves mitochondrial function in vitro in astrocytes and neurons via COX4I1.** *Mitochondrion*  
Li, L., Voloboueva, L., Griffiths, B. B., Giffard, R. G., Stary, C. M.  
2021
- **Adult neurogenesis from reprogrammed astrocytes.** *Neural regeneration research*  
Griffiths, B. B., Bhutani, A., Stary, C. M.  
2020; 15 (6): 973–79
- **An Integrated Method to Localize Regional, Cell-type Specific MicroRNA Changes after Focal Cerebral Ischemia in Mice**  
Griffiths, B., Arvola, O. J., Rao, A., Xu, L., Stary, C. M.  
LIPPINCOTT WILLIAMS & WILKINS.2020: 497
- **Assessment of New Drug Class with both Anesthetic and Antiepileptic Efficacy on Mouse Neuronal and Astrocyte Mitochondrial Function**  
Griffiths, B., Sun, X., Davies, F., Jahangir, A., Bertaccini, E. J., Stary, C. M.  
LIPPINCOTT WILLIAMS & WILKINS.2020: 499
- **Pre-treatment with miR-182 Antagomir Mitigates Ischemic Brain Damage by Reducing Astrocytes Injury and Inflammation**  
Alhadidi, Q., Xu, L., Sun, X., Althobaiti, Y., Almalki, A., Alsaab, H., Stary, C.  
WILEY.2020
- **Systematic Study of the Immune Components after Ischemic Stroke Using CyTOF Techniques.** *Journal of immunology research*  
Li, Y. n., Wang, Y. n., Yao, Y. n., Griffiths, B. B., Feng, L. n., Tao, T. n., Wang, F. n., Xu, B. n., Stary, C. M., Zhao, H. n.  
2020; 2020: 9132410
- **Methods of Mitochondrial and Redox Measurements in Ischemic Stroke** *STROKE BIOMARKERS*  
Arvola, O., Rao, A., Stary, C. M., Dambinova, S., Peplow, P. V., Martinez, B.  
2020: 61–78
- **Pregabalin: Potential for Addiction and a Possible Glutamatergic Mechanism.** *Scientific reports*  
Althobaiti, Y. S., Almalki, A., Alsaab, H., Alsanie, W., Gaber, A., Alhadidi, Q., Hardy, A. M., Nasr, A., Alzahrani, O., Stary, C. M., Shah, Z. A.  
2019; 9 (1): 15136
- **Stem Cell-Derived Exosomes Protect Astrocyte Cultures From in vitro Ischemia and Decrease Injury as Post-stroke Intravenous Therapy** *FRONTIERS IN CELLULAR NEUROSCIENCE*  
Sun, X., Jung, J., Arvola, O., Santoso, M. R., Giffard, R. G., Yang, P. C., Stary, C. M.  
2019; 13
- **Nursing Markedly Protects Postpartum Mice From Stroke: Associated Central and Peripheral Neuroimmune Changes and a Role for Oxytocin** *FRONTIERS IN NEUROSCIENCE*  
Stary, C. M., Xu, L., Voloboueva, L. A., Alcantara-Hernandez, M., Arvola, O. J., Idoyaga, J., Giffard, R. G.  
2019; 13
- **Pre-treatment with microRNA-181a Antagomir Prevents Loss of Parvalbumin Expression and Preserves Novel Object Recognition Following Mild Traumatic Brain Injury** *NEUROMOLECULAR MEDICINE*  
Griffiths, B. B., Sahbaie, P., Rao, A., Arvola, O., Xu, L., Liang, D., Ouyang, Y., Clark, D. J., Giffard, R. G., Stary, C. M.  
2019; 21 (2): 170–81
- **Hippocampal sub-regional differences in the microRNA response to forebrain ischemia.** *Molecular and cellular neurosciences*  
Arvola, O., Kaidonis, G., Xu, L., Griffiths, B., Stary, C. M.  
2019
- **Sexually Dimorphic Response to Stroke of miR-181a and miR-200c in Aged Mice**  
Griffiths, B. B., Arvola, O., Bhutani, A., Pastroudis, J., Xu Lijun, Stary, C.

LIPPINCOTT WILLIAMS & WILKINS.2019

- **Ferroptosis Contributes to Isoflurane Neurotoxicity** *FRONTIERS IN MOLECULAR NEUROSCIENCE*  
Xia, Y., Sun, X., Luo, Y., Stary, C. M.  
2019; 11
- **Bidirectional gut-brain-microbiota axis as a potential link between inflammatory bowel disease and ischemic stroke.** *Journal of neuroinflammation*  
Zhao, L., Xiong, Q., Stary, C. M., Mahgoub, O. K., Ye, Y., Gu, L., Xiong, X., Zhu, S.  
2018; 15 (1): 339
- **Elucidating sex differences in response to cerebral ischemia: immunoregulatory mechanisms and the role of microRNAs.** *Progress in neurobiology*  
Kaidonis, G., Rao, A. N., Ouyang, Y., Stary, C. M.  
2018
- **Micro-RNAs in the pathogenesis of epiretinal membrane (ERM) formation**  
Kaidonis, G., Stary, C. M., Leng, T.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
- **Engineering chimeric antigen receptor-T cells for cancer treatment** *MOLECULAR CANCER*  
Ye, B., Stary, C. M., Li, X., Gao, Q., Kang, C., Xiong, X.  
2018; 17: 32
- **Ferroptosis Contributes to Isoflurane Neurotoxicity.** *Frontiers in molecular neuroscience*  
Xia, Y., Sun, X., Luo, Y., Stary, C. M.  
2018; 11: 486
- **Anesthetic neurotoxicity: an emerging role for glia in neuroprotection** *JOURNAL OF MOLECULAR MEDICINE-IMM*  
Bell, J. D., Stary, C. M.  
2017; 95 (4): 349-351
- **Genetically Modified T-Cell-Based Adoptive Immunotherapy in Hematological Malignancies** *JOURNAL OF IMMUNOLOGY RESEARCH*  
Ye, B., Stary, C. M., Gao, Q., Wang, Q., Zeng, Z., Jian, Z., Gu, L., Xiong, X.  
2017
- **Serum prealbumin as an effective prognostic indicator for determining clinical status and prognosis in patients with hemorrhagic stroke.** *Neural regeneration research*  
Zhang, S. Q., Peng, B. n., Stary, C. M., Jian, Z. H., Xiong, X. X., Chen, Q. X.  
2017; 12 (7): 1097-1102
- **Exaggerated Oculocardiac Reflex Elicited by Local Anesthetic Injection of an Empty Orbit: A Case Report.** *A & A case reports*  
Nicholson, D. n., Kossler, A. n., Topping, K. n., Stary, C. M.  
2017
- **Advances in Immunotherapy for Glioblastoma Multiforme** *JOURNAL OF IMMUNOLOGY RESEARCH*  
Huang, B., Zhang, H., Gu, L., Ye, B., Jian, Z., Stary, C., Xiong, X.  
2017
- **The inflammasome as a target for pain therapy** *BRITISH JOURNAL OF ANAESTHESIA*  
Zhang, H., Li, F., Li, W., Stary, C., Clark, J. D., Xu, S., Xiong, X.  
2016; 117 (6): 693-707
- **Exploring and exploiting unique properties of the hippocampal dentate gyrus for post-stroke therapy: astrocytes link ischemic resistance with neurogenic potential.** *Neural regeneration research*  
Stary, C. M.  
2016; 11 (11): 1756-1757
- **Transient Receptor Potential Vanilloid 1 Regulates Mitochondrial Membrane Potential and Myocardial Reperfusion Injury.** *Journal of the American Heart Association*  
Hurt, C. M., Lu, Y., M Stary, C., Piplani, H., Small, B. A., Urban, T. J., Qvit, N., Gross, G. J., Mochly-Rosen, D., Gross, E. R.  
2016; 5 (9)

- **miR-29a differentially regulates cell survival in astrocytes from cornu ammonis 1 and dentate gyrus by targeting VDAC1.** *Mitochondrion*  
Stary, C. M., Sun, X., Ouyang, Y., Li, L., Giffard, R. G.  
2016; 30: 248-254
- **A high-resolution method for assessing cellular oxidative phosphorylation efficiency: bringing mitochondrial bioenergetics into focus. Focus on "Direct real-time quantification of mitochondrial oxidative phosphorylation efficiency in permeabilized skeletal muscle myofibers".** *American journal of physiology. Cell physiology*  
Stary, C. M.  
2016; 311 (2): C237-8
- **Cytosolic calcium transients are a determinant of contraction-induced HSP72 transcription in single skeletal muscle fibers** *JOURNAL OF APPLIED PHYSIOLOGY*  
Stary, C. M., Hogan, M. C.  
2016; 120 (10): 1260-1266
- **Targeting Glial Mitochondrial Function for Protection from Cerebral Ischemia: Relevance, Mechanisms, and the Role of MicroRNAs** *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY*  
Li, L., Stary, C. M.  
2016
- **Single-Cell Sequencing Technology in Oncology: Applications for Clinical Therapies and Research.** *Analytical cellular pathology*  
Ye, B., Gao, Q., Zeng, Z., Stary, C. M., Jian, Z., Xiong, X., Gu, L.  
2016; 2016: 9369240-?
- **Physiologically normal 5% O2 supports neuronal differentiation and resistance to inflammatory injury in neural stem cell cultures.** *Journal of neuroscience research*  
Sun, X., Voloboueva, L. A., Stary, C. M., Giffard, R. G.  
2015; 93 (11): 1703-1712
- **Physiologically normal 5% O2 supports neuronal differentiation and resistance to inflammatory injury in neural stem cell cultures.** *Journal of neuroscience research*  
Sun, X., Voloboueva, L. A., Stary, C. M., Giffard, R. G.  
2015; 93 (11): Spc1-?
- **Epigenetics: The Epicenter for Future Anesthesia Research?** *Anesthesiology*  
Stary, C. M., Patel, H. H., Roth, D. M.  
2015; 123 (4): 743-744
- **Astrocytes Protect against Isoflurane Neurotoxicity by Buffering pro-brain-derived Neurotrophic Factor.** *Anesthesiology*  
Stary, C. M., Sun, X., Giffard, R. G.  
2015; 123 (4): 810-819
- **T Cells and Cerebral Ischemic Stroke** *NEUROCHEMICAL RESEARCH*  
Gu, L., Jian, Z., Stary, C., Xiong, X.  
2015; 40 (9): 1786-1791
- **Advances in Astrocyte-targeted Approaches for Stroke Therapy: An Emerging Role for Mitochondria and microRNAs.** *Neurochemical research*  
Stary, C. M., Giffard, R. G.  
2015; 40 (2): 301-307
- **MicroRNA-200c Contributes to Injury From Transient Focal Cerebral Ischemia by Targeting Reelin.** *Stroke; a journal of cerebral circulation*  
Stary, C. M., Xu, L., Sun, X., Ouyang, Y., White, R. E., Leong, J., Li, J., Xiong, X., Giffard, R. G.  
2015; 46 (2): 551-556
- **Post-stroke treatment with miR-181 antagomir reduces injury and improves long-term behavioral recovery in mice after focal cerebral ischemia.** *Experimental neurology*  
Xu, L., Ouyang, Y., Xiong, X., Stary, C. M., Giffard, R. G.  
2015; 264: 1-7
- **Role of caveolin-3 in lymphocyte activation.** *Life sciences*  
Tran, C., Stary, C. M., Schilling, J. M., Bentley, B., Patel, H. H., Roth, D. M.

2015; 121: 35-39

- **The Use of microRNAs to Modulate Redox and Immune Response to Stroke.** *Antioxidants & redox signaling*  
Ouyang, Y., Stary, C. M., White, R. E., Giffard, R. G.  
2015; 22 (2): 187-202
- **Molecular Pathogenesis of Anti-NMDAR Encephalitis** *BIOMED RESEARCH INTERNATIONAL*  
Ding, H., Jian, Z., Stary, C. M., Yi, W., Xiong, X.  
2015
- **microRNAs: Innovative Targets for Cerebral Ischemia and Stroke** *CURRENT DRUG TARGETS*  
Ouyang, Y., Stary, C. M., Yang, G., Giffard, R.  
2013; 14 (1): 90-101
- **Caveolins: targeting pro-survival signaling in the heart and brain.** *Frontiers in physiology*  
Stary, C. M., Tsutsumi, Y. M., Patel, P. M., Head, B. P., Patel, H. H., Roth, D. M.  
2012; 3: 393-?
- **Caveolins: targeting pro-survival signaling in the heart and brain** *FRONTIERS IN PHYSIOLOGY*  
Stary, C. M., Tsutsumi, Y. M., Patel, P. M., Head, B. P., Patel, H. H., Roth, D. M.  
2012; 3
- **Idiopathic granulomatous mastitis associated with corynebacterium sp. Infection.** *Hawaii medical journal*  
Stary, C. M., Lee, Y. S., Balfour, J.  
2011; 70 (5): 99-101
- **The O-2 cost of the tension-time integral in isolated single myocytes during fatigue** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Hepple, R. T., Howlett, R. A., Kindig, C. A., Stary, C. M., Hogan, M. C.  
2010; 298 (4): R983-R988
- **Glycolytic activation at the onset of contractions in isolated Xenopus laevis single myofibres** *EXPERIMENTAL PHYSIOLOGY*  
Walsh, B., Stary, C. M., Howlett, R. A., Kelley, K. M., Hogan, M. C.  
2008; 93 (9): 1076-1084
- **Elevation in heat shock protein 72 mRNA following contractions in isolated single skeletal muscle fibers** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Stary, C. M., Walsh, B. J., Knapp, A. E., Brafman, D., Hogan, M. C.  
2008; 295 (2): R642-R648
- **Measurement of activation energy and oxidative phosphorylation onset kinetics in isolated muscle fibers in the absence of cross-bridge cycling** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Walsh, B., Howlett, R. A., Stary, C. M., Kindig, C. A., Hogan, M. C.  
2006; 290 (6): R1707-R1713
- **Determinants of oxidative phosphorylation onset kinetics in isolated myocytes** *MEDICINE AND SCIENCE IN SPORTS AND EXERCISE*  
Walsh, B., Howlett, R. A., Stary, C. M., Kindig, C. A., Hogan, M. C.  
2005; 37 (9): 1551-1558
- **Intracellular pH during sequential, fatiguing contractile periods in isolated single Xenopus skeletal muscle fibers** *JOURNAL OF APPLIED PHYSIOLOGY*  
Stary, C. M., Hogan, M. C.  
2005; 99 (1): 308-312
- **Relationship between intracellular PO2 recovery kinetics and fatigability in isolated single frog myocytes** *JOURNAL OF APPLIED PHYSIOLOGY*  
Kindig, C. A., Walsh, B., Howlett, R. A., Stary, C. M., Hogan, M. C.  
2005; 98 (6): 2316-2319
- **NAD(P)H fluorescence imaging of mitochondrial metabolism in contracting Xenopus skeletal muscle fibers: effect of oxygen availability** *JOURNAL OF APPLIED PHYSIOLOGY*  
Hogan, M. C., Stary, C. M., Balaban, R. S., Combs, C. A.  
2005; 98 (4): 1420-1426

- **Effects of acute creatine kinase inhibition on metabolism and tension development in isolated single myocytes** *JOURNAL OF APPLIED PHYSIOLOGY*  
Kindig, C. A., Howlett, R. A., Stary, C. M., Walsh, B., Hogan, M. C.  
2005; 98 (2): 541-549
- **Effect of dissociating cytosolic calcium and metabolic rate of intracellular Po-2 kinetics in single frog myocytes** *JOURNAL OF PHYSIOLOGY-LONDON*  
Kindig, C. A., Stary, C. M., Hogan, M. C.  
2005; 562 (2): 527-534
- **Resistance to fatigue of individual Xenopus single skeletal muscle fibres is correlated with mitochondrial volume density** *EXPERIMENTAL PHYSIOLOGY*  
Stary, C. M., Mathieu-Costello, O., Hogan, M. C.  
2004; 89 (5): 617-621
- **Effect of contraction frequency on the contractile and noncontractile phases of muscle venous blood flow** *JOURNAL OF APPLIED PHYSIOLOGY*  
Hogan, M. C., Grassi, B., Samaja, M., Stary, C. M., Gladden, L. B.  
2003; 95 (3): 1139-1144
- **Trimetazidine reduces basal cytosolic Ca<sup>2+</sup> concentration during hypoxia in single Xenopus skeletal myocytes** *EXPERIMENTAL PHYSIOLOGY*  
Stary, C. M., Kohin, S., Samaja, M., Howlett, R. A., Hogan, M. C.  
2003; 88 (3): 415-421
- **No effect of trans sodium crocetinate on maximal O-2 conductance or V-O<sub>2</sub>, V-max in moderate hypoxia** *RESPIRATORY PHYSIOLOGY & NEUROBIOLOGY*  
Hepple, R. T., Stary, C. M., Kohin, S., Wagner, P. D., Hogan, M. C.  
2003; 134 (3): 239-246
- **Assessment of O-2 uptake dynamics in isolated single skeletal myocytes** *JOURNAL OF APPLIED PHYSIOLOGY*  
Kindig, C. A., Kelley, K. M., Howlett, R. A., Stary, C. M., Hogan, M. C.  
2003; 94 (1): 353-357
- **Preconditioning improves function and recovery of single muscle fibers during severe hypoxia and reoxygenation** *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*  
Kohin, S., Stary, C. M., Howlett, R. A., Hogan, M. C.  
2001; 281 (1): C142-C146
- **Recovery of force during postcontractile depression in single Xenopus muscle fibers** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Howlett, R. A., Stary, C. M., Hogan, M. C.  
2001; 280 (5): R1469-R1475
- **Impairment of Ca<sup>2+</sup> release in single Xenopus muscle fibers fatigued at varied extracellular Po-2** *JOURNAL OF APPLIED PHYSIOLOGY*  
Stary, C. M., Hogan, M. C.  
2000; 88 (5): 1743-1748
- **Phosphorylating pathways and fatigue development in contracting Xenopus single skeletal muscle fibers** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Stary, C. M., Hogan, M. C.  
2000; 278 (3): R587-R591
- **Structural basis of muscle O-2 diffusing capacity: evidence from muscle function in situ** *JOURNAL OF APPLIED PHYSIOLOGY*  
Hepple, R. T., Hogan, M. C., Stary, C., Bebout, D. E., Mathieu-Costello, O., Wagner, P. D.  
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