



## Frank E. Stockdale

Maureen Lyles D'Ambrogio Professor in the School of Medicine, Emeritus  
Medicine - Oncology

### CLINICAL OFFICES

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### Bio

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### CLINICAL FOCUS

- Cancer > Breast Cancer
- Breast Cancer - Medical Oncology
- Oncology
- Newly Diagnosed Breast Cancer
- Metastatic Breast Cancer
- Inflammatory Breast Cancer
- Locally Advanced Breast Cancer
- Chemotherapy, Adjuvant
- Ductal Carcinoma In Situ
- Phyllodes Tumor
- breast cancer

### ACADEMIC APPOINTMENTS

- Professor Emeritus, Medicine - Oncology
- Member, Cardiovascular Institute

### HONORS AND AWARDS

- Elected, Best Doctors in America (2006-2016)
- ASCI, American Society for Clinic Investigation (1974)
- AAP, American Association of Physicians (1976)
- Fellow, AAAS Fellow (1999)
- Fellow, Guggenheim Foundation (1983)

## PROFESSIONAL EDUCATION

- Residency: Stanford University School of Medicine (1967) CA
- Medical Education: University of Pennsylvania (1963) PA
- Internship: University Hospitals of Cleveland (1964) OH
- Fellowship, National Institutes of Health (1966)
- A.B., Yale University , Zoology (1958)
- Ph.D., University of Pennsylvania , Anatomy (1963)
- M.D., University of Pennsylvania , Medicine (1963)

## LINKS

- [http://med.stanford.edu/labs/frank\\_stockdale/](http://med.stanford.edu/labs/frank_stockdale/): [http://med.stanford.edu/labs/frank\\_stockdale/](http://med.stanford.edu/labs/frank_stockdale/)
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

The focus of the research program are clinical trials in breast cancer. Clinical trials aim to investigate treatments for women with breast cancer who are newly diagnosed or have had a recurrence of breast cancer. Trials include participation in the national breast cancer study groups, ECOG and NSABP, as well as the development of new chemotherapy programs. Of particular interest are adjuvant therapy, treatment of metastatic disease, methods for treatment of locally advanced breast cancer and inflammatory breast cancer. Laboratory work has centered on the mechanisms of how cells acquire specific fates during growth and development, providing insights into normal and abnormal mechanisms of growth control.

### CLINICAL TRIALS

- A Safety and Immunology Study of a Modified Vaccinia Vaccine for HER-2(+) Breast Cancer After Adjuvant Therapy, Not Recruiting
- A Study of AC Followed by a Combination of Paclitaxel Plus Trastuzumab or Lapatinib or Both Given Before Surgery to Patients With Operable HER2 Positive Invasive Breast Cancer, Not Recruiting
- Adjuvant Chemotherapy in Treating Women Who Have Undergone Resection for Relapsed Breast Cancer; Chemotherapy as Adjuvant for LOcally Recurrent Breast Cancer, Not Recruiting
- Anastrozole and ZD1839 Compared With Fulvestrant and ZD1839 in Postmenopausal Women w/ Metastatic Breast Cancer, Not Recruiting
- Chemotherapy With or Without Trastuzumab After Surgery in Treating Women With Invasive Breast Cancer, Not Recruiting
- Comparison of Two Combination Chemotherapy Regimens in Treating Women With Breast Cancer, Not Recruiting
- Doxorubicin Hydrochloride, Cyclophosphamide, and Paclitaxel With or Without Bevacizumab in Treating Patients With Lymph Node-Positive or High-Risk, Lymph Node-Negative Breast Cancer, Not Recruiting
- Management of Insomnia in Breast Cancer Patients, Not Recruiting
- Radiation Therapy (WBI Versus PBI) in Treating Women Who Have Undergone Surgery For Ductal Carcinoma In Situ or Stage I or Stage II Breast Cancer, Not Recruiting
- S0307 Phase III Trial of Bisphosphonates as Adjuvant Therapy for Primary Breast Cancer., Not Recruiting

## Publications

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### PUBLICATIONS

- **Farewell to Professor David Yaffe - A pillar of the myogenesis field** *EUROPEAN JOURNAL OF TRANSLATIONAL MYOLOGY*  
Yablonka-Reuveni, Z., Stockdale, F., Nudel, U., Israeli, D., Blau, H. M., Shainberg, A., Neuman, S., Kessler-Icekson, G., Krull, E., Paterson, B., Fuchs, O., Greenberg, D., Sarig, et al  
2020; 30 (3)

- **Howard Holtzer - Developmental and cell biologist 1922-2014** *DEVELOPMENTAL BIOLOGY*  
Stockdale, F. E., Sanger, J. W., Emerson, C. P.  
2015; 401 (2): 185–87
- **Gene Expression, Cell Determination, and Differentiation** *PRINCIPLES OF TISSUE ENGINEERING, 4TH EDITION*  
Stockdale, F. E., Lanza, R., Langer, R., Vacanti, J.  
2014: 225–34
- **Single Cell Profiling of Circulating Tumor Cells: Transcriptional Heterogeneity and Diversity from Breast Cancer Cell Lines** *PLOS ONE*  
Powell, A. A., Talasaz, A. H., Zhang, H., Coram, M. A., Reddy, A., Deng, G., Telli, M. L., Advani, R. H., Carlson, R. W., Mollick, J. A., Sheth, S., Kurian, A. W., Ford, et al  
2012; 7 (5)
- **Stimulation of natural killer cells with a CD137-specific antibody enhances trastuzumab efficacy in xenotransplant models of breast cancer** *JOURNAL OF CLINICAL INVESTIGATION*  
Kohrt, H. E., Houot, R., Weiskopf, K., Goldstein, M. J., Scheeren, F., Czerwinski, D., Colevas, A. D., Weng, W., Clarke, M. F., Carlson, R. W., Stockdale, F. E., Mollick, J. A., Chen, et al  
2012; 122 (3): 1066-1075
- **Carbonylation of myosin heavy chains in rat heart during diabetes** *BIOCHEMICAL PHARMACOLOGY*  
Shao, C., Rozanski, G. J., Nagai, R., Stockdale, F. E., Patel, K. P., Wang, M., Singh, J., Mayhan, W. G., Bidasee, K. R.  
2010; 80 (2): 205-217
- **INCREASED CARBONYLATION OF VENTRICULAR MYOSIN HEAVY CHAINS DURING DIABETES**  
Bidasee, K. R., Rozanski, G. J., Nagai, R., Horiuchi, S., Stockdale, F., Patel, K., Shao, C.  
FEDERATION AMER SOC EXP BIOL.2009
- **New models and online calculator for predicting non-sentinel lymph node status in sentinel lymph node positive breast cancer patients** *30th Annual San Antonio Breast Cancer Symposium*  
Kohrt, H., Olshen, R., Bermas, H., GOODSON, W., Henry, S., Rouse, R., Bailey, L., Philben, V., Dirbas, F., Dunn, J., Johnson, D., Wapnir, I., Carlson, et al  
SPRINGER.2008: 588–88
- **New models and online calculator for predicting non-sentinel lymph node status in sentinel lymph node positive breast cancer patients** *BMC CANCER*  
Kohrt, H. E., Olshen, R. A., Bermas, H. R., Goodson, W. H., Wood, D. J., Henry, S., Rouse, R. V., Bailey, L., Philben, V. J., Dirbas, F. M., Dunn, J. J., Johnson, D. L., Wapnir, et al  
2008; 8
- **Gene Expression, Cell Determination, and Differentiation** *PRINCIPLES OF TISSUE ENGINEERING, 3RD EDITION*  
Nikovits, W., Stockdale, F. E., Lanza, R., Langer, R., Vacanti, J.  
2007: 129–34
- **Predicting non-sentinel lymph node involvement in breast cancer patients.** *42nd Annual Meeting of the American-Society-of-Clinical-Oncology*  
Kohrt, H. E., Olshen, R. A., Goodson, W. H., Rouse, R. V., Bailey, L., Philben, V., Dirbas, F. M., Stockdale, F. E., Carlson, R. W., Jeffrey, S. S.  
AMER SOC CLINICAL ONCOLOGY.2006: 10S–10S
- **Cost-effectiveness of screening BRCA1/2 mutation carriers with breast magnetic resonance imaging** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Plevritis, S. K., Kurian, A. W., Sigal, B. M., Daniel, B. L., Ikeda, D. M., Stockdale, F. E., Garber, A. M.  
2006; 295 (20): 2374-2384
- **Cells of all somitic compartments are determined with respect to segmental identity** *DEVELOPMENTAL DYNAMICS*  
Fomenou, M. D., Scaal, M., Stockdale, F. E., Christ, B., Huang, R. J.  
2005; 233 (4): 1386-1393
- **Phase I trial of uracil-ftorafur, leucovorin, and etoposide: an active all-oral regimen for metastatic breast cancer** *BREAST CANCER RESEARCH AND TREATMENT*  
Hartman, A. R., Grekowicz, A., Lum, B. L., Carlson, R. W., Schurman, C., Sikic, B. I., Shapiro, R., Stockdale, F. E.  
2003; 82 (1): 61-69
- **Regulation of myosin expression during myotome formation** *DEVELOPMENT*  
Sacks, L. D., Cann, G. M., Nikovits, W., Conlon, S., Espinoza, N. R., Stockdale, F. E.

2003; 130 (15): 3391-3402

- **Ventral axial organs regulate expression of myotomal Fgf-8 that influences rib development** *DEVELOPMENTAL BIOLOGY*  
Huang, R. J., Stolte, D., Kurz, H., Ehehalt, F., Cann, G. M., Stockdale, F. E., Patel, K., Christ, B.  
2003; 255 (1): 30-47
- **Slow myosins in muscle development.** *Results and problems in cell differentiation*  
Stockdale, F. E., Nikovits, W., Espinoza, N. R.  
2002; 38: 199-214
- **Control of muscle size during embryonic, fetal, and adult life.** *Results and problems in cell differentiation*  
Patel, K., Christ, B., Stockdale, F. E.  
2002; 38: 163-186
- **Irx4 forms an inhibitory complex with the vitamin D and retinoic X receptors to regulate cardiac chamber-specific slow MyHC3 expression** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Wang, G. F., Nikovits, W., Bao, Z. Z., Stockdale, F. E.  
2001; 276 (31): 28835-28841
- **Patterning of fast and slow fibers within embryonic muscles is established independently of signals from the surrounding mesenchyme** *DEVELOPMENT*  
Nikovits, W., Cann, G. M., Huang, R. J., Christ, B., Stockdale, F. E.  
2001; 128 (13): 2537-2544
- **Paclitaxel-induced hypersensitivity pneumonitis: radiographic and CT findings.** *AJR. American journal of roentgenology*  
Wong, P., Leung, A. N., Berry, G. J., Atkins, K. A., Montoya, J. G., Ruoss, S. J., Stockdale, F. E.  
2001; 176 (3): 718-720
- **Case report - Paclitaxel-induced hypersensitivity pneumonitis: Radiographic and CT findings** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Wong, P., Leung, A. N., Berry, G. J., Atkins, K. A., Montoya, J. G., Ruoss, S. J., Stockdale, F. E.  
2001; 176 (3): 718-720
- **Locally advanced breast cancer: is surgery necessary?** *breast journal*  
Favret, A. M., Carlson, R. W., Goffinet, D. R., Jeffrey, S. S., Dirbas, F. M., Stockdale, F. E.  
2001; 7 (2): 131-137
- **Molecular and cellular biology of avian somite development** *DEVELOPMENTAL DYNAMICS*  
Stockdale, F. E., Nikovits, W., Christ, B.  
2000; 219 (3): 304-321
- **Sonic hedgehog enhances somite cell viability and formation of primary slow muscle fibers in avian segmented mesoderm** *ANATOMY AND EMBRYOLOGY*  
Cann, G. M., Lee, J. W., Stockdale, F. E.  
1999; 200 (3): 239-252
- **A retinoic acid-inducible transgenic marker of sino-atrial development in the mouse heart** *DEVELOPMENT*  
Xavier-Neto, J., Neville, C. M., Shapiro, M. D., Houghton, L., Wang, G. F., Nikovits, W., Stockdale, F. E., Rosenthal, N.  
1999; 126 (12): 2677-2687
- **The role of cell lineage in establishing fast and slow muscle fiber distribution in developing skeletal muscle**  
Nikovits, W., Cann, G., Stockdale, F. E.  
*AMER SOC CELL BIOLOGY*.1998: 308A
- **A positive GATA element and a negative vitamin D receptor-like element control atrial chamber-specific expression of a slow myosin heavy-chain gene during cardiac morphogenesis** *MOLECULAR AND CELLULAR BIOLOGY*  
Wang, G. F., Nikovits, W., Schleinitz, M., Stockdale, F. E.  
1998; 18 (10): 6023-6034
- **Sonic hedgehog promotes the differentiation and expansion of slow and fast muscle populations in avian somites**  
Cann, G., Lee, J., Stockdale, F. E.  
*ACADEMIC PRESS INC*.1998: 218
- **Cell lineage establishment fast and slow muscle fiber distribution in developing skeletal muscle in chimeric embryos**

- Nikovits, W., Cann, G., Stockdale, F. E.  
ACADEMIC PRESS INC.1998: 188
- **Both myoblast lineage and innervation determine fiber type and are required for expression of the slow myosin heavy chain 2 gene** *DEVELOPMENTAL BIOLOGY*  
DiMario, J. X., Stockdale, F. E.  
1997; 188 (1): 167-180
  - **Mechanisms of formation of muscle fiber types** *International Symposium on Molecular Mechanisms of Myofibril Assembly*  
Stockdale, F. E.  
JAPAN SOC CELL BIOLOGY.1997: 37-43
  - **Atrial chamber-specific expression of the slow myosin heavy chain 3 gene in the embryonic heart** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Wang, G. F., Nikovits, W., Schleinitz, M., Stockdale, F. E.  
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  - **Isolation and characterization of an avian slow myosin heavy chain gene expressed during embryonic skeletal muscle fiber formation** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Nikovits, W., Wang, G. F., Feldman, J. L., MILLER, J. B., Wade, R., Nelson, L., Stockdale, F. E.  
1996; 271 (29): 17047-17056
  - **THE IMPORTANCE OF THE LUMPECTOMY SURGICAL MARGIN STATUS IN LONG-TERM RESULTS OF BREAST-CONSERVATION** *CANCER*  
Smitt, M. C., Nowels, K. W., ZDEBLICK, M. J., JEFFREY, S., Carlson, R. W., Stockdale, F. E., Goffinet, D. R.  
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  - **MYOGENIC SPECIFICATION OF SOMITES IS MEDIATED BY DIFFUSIBLE FACTORS** *DEVELOPMENTAL BIOLOGY*  
BUFFINGER, N., Stockdale, F. E.  
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  - **DIFFERENCES IN THE DEVELOPMENTAL FATE OF CULTURED AND NONCULTURED MYOBLASTS WHEN TRANSPLANTED INTO EMBRYONIC LIMBS** *EXPERIMENTAL CELL RESEARCH*  
DiMario, J. X., Stockdale, F. E.  
1995; 216 (2): 431-442
  - **MAMMOGRAPHY, NEEDLE-BIOPSY, AND TUMOR SPREAD** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Stockdale, F. E.  
1994; 272 (11): 895-896
  - **MYOGENESIS - EMBRYOLOGY TO GENE-THERAPY** *TRENDS IN GENETICS*  
Stockdale, F. E.  
1994; 10 (9): 301-302
  - **MYOGENIC SPECIFICATION IN SOMITES - INDUCTION BY AXIAL STRUCTURES** *DEVELOPMENT*  
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1994; 120 (6): 1443-1452
  - **EXPRESSION OF THE QUAIL SLOW MYOSIN HEAVY CHAIN-3 GENE AND ESTABLISHMENT OF THE SLOW SKELETAL-MUSCLE CELL LINEAGE**  
Nikovits, W., Wang, G. F., Stockdale, F. E.  
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  - **MYOBLASTS TRANSFERRED TO THE LIMBS OF EMBRYOS ARE COMMITTED TO SPECIFIC FIBER FATES** *NATURE*  
DiMario, J. X., Fernyak, S. E., Stockdale, F. E.  
1993; 362 (6416): 165-167
  - **Developmental appearance of adult myoblasts (satellite cells): studies of adult myoblasts in culture and adult myoblast transfer into embryonic avian limbs.** *Progress in clinical and biological research*  
Feldman, J. L., DiMario, J. X., Stockdale, F. E.  
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- **MYOGENIC CELL LINEAGES** *DEVELOPMENTAL BIOLOGY*  
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- **DEVELOPMENTALLY REGULATED EXPRESSION OF 3 SLOW ISOFORMS OF MYOSIN HEAVY-CHAIN - DIVERSITY AMONG THE 1ST FIBERS TO FORM IN AVIAN MUSCLE** *DEVELOPMENTAL BIOLOGY*  
Page, S., MILLER, J. B., DiMario, J. X., Hager, E. J., Moser, A., Stockdale, F. E.  
1992; 154 (1): 118-128
- **TEMPORAL APPEARANCE OF SATELLITE CELLS DURING MYOGENESIS** *DEVELOPMENTAL BIOLOGY*  
Feldman, J. L., Stockdale, F. E.  
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- **ECLIPSE OF THE IDENTIFIABLE MYOBLAST** *SYMP ON MOLECULAR BIOLOGY OF MUSCLE*  
Stockdale, F. E.  
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- **SKELETAL-MUSCLE SATELLITE CELL DIVERSITY - SATELLITE CELLS FORM FIBERS OF DIFFERENT TYPES IN CELL-CULTURE** *DEVELOPMENTAL BIOLOGY*  
Feldman, J. L., Stockdale, F. E.  
1991; 143 (2): 320-334
- **THE MYOGENIC LINEAGE - EVIDENCE FOR MULTIPLE CELLULAR PRECURSORS DURING AVIAN LIMB DEVELOPMENT** *SYMP AT THE 1989 POULTRY NUTRITION CONF*  
Stockdale, F. E.  
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- **MYOBLASTS, SATELLITE CELLS, AND MYOBLAST TRANSFER** *INTERNATIONAL CONF ON MYOBLAST TRANSFER THERAPY*  
Stockdale, F. E., Hager, E. J., Fernyak, S. E., DiMario, J. X.  
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- **MYOBLAST DIVERSITY AND THE FORMATION OF THE EARLY LIMB MUSCULATURE** *CONF ON CELL LINEAGES IN DEVELOPMENT : HOWARD H HOLTZER SYMPOSIUM IN DEVELOPMENTAL BIOLOGY*  
Stockdale, F. E.  
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- **MULTIPLE CELLULAR PROCESSES REGULATE EXPRESSION OF SLOW MYOSIN HEAVY-CHAIN ISOFORMS DURING AVIAN MYOGENESIS INVITRO** *DEVELOPMENTAL BIOLOGY*  
MILLER, J. B., Stockdale, F. E.  
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- **EVOLUTIONARILY CONSERVED SEQUENCES OF STRIATED-MUSCLE MYOSIN HEAVY-CHAIN ISOFORMS - EPITOPE MAPPING BY CDNA EXPRESSION** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
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- **DEVELOPMENTAL AND MUSCLE-SPECIFIC CHANGES IN METHYLATION OF THE MYOSIN LIGHT CHAIN LC1F AND LC3F PROMOTERS DURING AVIAN MYOGENESIS** *DEVELOPMENTAL BIOLOGY*  
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- **DEVELOPMENTAL PATTERNS OF EXPRESSION AND COEXPRESSION OF MYOSIN HEAVY-CHAINS IN ATRIA AND VENTRICLES OF THE AVIAN HEART** *DEVELOPMENTAL BIOLOGY*  
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- **THE CELLULAR BASIS OF MYOSIN HEAVY-CHAIN ISOFORM EXPRESSION DURING DEVELOPMENT OF AVIAN SKELETAL-MUSCLES** *DEVELOPMENTAL BIOLOGY*  
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  - **WHAT MUSCLE-CELLS KNOW THAT NERVES DONT TELL THEM** *TRENDS IN NEUROSCIENCES*  
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  - **COMBINED MODALITY THERAPY OF LOCALLY ADVANCED BREAST-CANCER - ONE INSTITUTIONS EXPERIENCE AND A REVIEW OF THE LITERATURE** *ANTICANCER RESEARCH*  
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  - **REASONING FROM THE CLINICAL LITERATURE - A DISTANCE METRIC** *BULLETIN DU CANCER*  
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  - **A COMPUTATIONAL MODEL OF REASONING FROM THE CLINICAL LITERATURE** *COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE*  
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  - **MILK PROTEIN EXPRESSION AND DUCTAL MORPHOGENESIS IN THE MAMMARY-GLAND INVITRO - HORMONE-DEPENDENT AND HORMONE-INDEPENDENT PHASES OF ADIPOCYTE MAMMARY EPITHELIAL-CELL INTERACTION** *DEVELOPMENTAL BIOLOGY*  
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  - **DEVELOPMENTAL REGULATION OF THE MULTIPLE MYOGENIC CELL LINEAGES OF THE AVIAN EMBRYO** *JOURNAL OF CELL BIOLOGY*  
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  - **THE DEVELOPMENTAL PROGRAM OF FAST MYOSIN HEAVY-CHAIN EXPRESSION IN AVIAN SKELETAL-MUSCLES** *DEVELOPMENTAL BIOLOGY*  
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  - **DEVELOPMENTAL ORIGINS OF SKELETAL-MUSCLE FIBERS - CLONAL ANALYSIS OF MYOGENIC CELL LINEAGES BASED ON EXPRESSION OF FAST AND SLOW MYOSIN HEAVY-CHAINS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
MILLER, J. B., Stockdale, F. E.  
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- **MYOSIN EXPRESSION AND SPECIALIZATION AMONG THE EARLIEST MUSCLE-FIBERS OF THE DEVELOPING AVIAN LIMB** *DEVELOPMENTAL BIOLOGY*  
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- **Cell-cell interactions in the mediation of hormone dependent differentiation of mammary epithelium.** *Progress in clinical and biological research*  
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- **CELL-CELL INTERACTIONS PROMOTE MAMMARY EPITHELIAL-CELL DIFFERENTIATION** *JOURNAL OF CELL BIOLOGY*  
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GROVE, B. K., Stockdale, F. E.  
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