

## BIOGRAPHICAL SKETCH

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NAME Kathleen M. (Fitzgerald) Gustafson* *changed to spouse's name in 2003	POSITION TITLE Research Assistant Professor, Neurology Associate Director, Fetal Biomagnetometry, Hoglund Brain Imaging Center		
eRA COMMONS USER NAME KGUSTAFSON1			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Maple Woods Community College, Kansas City, MO	AS	1974-76	Veterinary Technology
Eurotechnical Research University, Hilo, Hawaii	PhD	1990-94	Vision Science

### A. Positions and Honors.

#### Positions and Employment

- 1976-1978 Director, Department of Anesthesiology and Intensive Care, Veterinary Teaching Hospital, University of Missouri, Columbia, MO
- 1979-1984 Freelance artist, Durango, CO
- 1984-2003 Director, Vision Sciences Laboratory, The Children's Mercy Hospital, Kansas City, MO
- 1994-2003 Assistant Professor, Pediatrics, University of Missouri, Kansas City, School of Medicine, Kansas City, MO
- 2000-2003 Clinical Assistant Professor, Ophthalmology, Kansas University School of Medicine, Kansas City, KS
- 2003-present Associate Director, fetal Biomagnetometry Laboratory, Hoglund Brain Imaging Center, University of Kansas Medical Center, Kansas City, KS
- 2003- Present Research Assistant Professor, Neurology, University of Kansas School of Medicine, Kansas City, KS
- 2005-present Courtesy Assistant Professor of Psychology, Kansas University, Lawrence, KS
- 2006-present Interim Director, MEG Laboratories, Hoglund Brain Imaging Center, University of Kansas Medical Center, Kansas City, KS

#### Other Experience and Professional Memberships

##### Patents:

1. Infant formulas containing long-chain polyunsaturated fatty acids and uses thereof.  
*United States Patent.* # US 6,596,302 B2 July 22, 2003.  
*European Patent Office.* Patent No. 01928487.6-2114-US0111964. (2002)  
*Patent Cooperation Treaty Publication.* International Publication number: WO 01/78530 A2. (2001)
2. Retinal dystrophin transgene and methods of use thereof.  
*United States Patent.* # 60/608,252; (Patent Pending – Docket # 34444-Pro-2)
3. Retinal dystrophin transgene and methods of use thereof.  
*European Patent Office* Patent No. 05775087.9-1212-US20055025375 (2007)

Program Committee Member: Vision Science and Its Applications, 2000, 2001

##### Associations:

The Society of General Physiologists  
The Association for Research in Vision and Ophthalmology

### B. Selected peer-reviewed publications (Out of 22 peer-reviewed publications, 24 published abstracts and 3 book chapters)

Cibis, G. W., **Fitzgerald, K. M.**, Harris, D. J., Rothberg, P. G., Rupani, M. (1993) The effects of dystrophin gene mutations on the ERG in mice and humans. *Investigative Ophthalmology & Visual Science.* **34**:3646-

3652.

- Cibis, G.W., **Fitzgerald, K. M.** (1993) Electrophysiologic Acuity Testing. In Cibis, G. W., Cibis-Tongue, A., Stass-Isern, M. L. (Eds.) *Decision Making in Pediatric Ophthalmology*. Mosby, St. Louis, MO. pp.298-299.
- Cibis, G. W., **Fitzgerald, K. M.** (1993) Vision Testing in Infants and Non-responsive Children. In Dobbing, J., (Ed.) *Lipids, Learning and the Brain: Fats in Infant Formula (103rd Ross Conference on Pediatric Nutrition)*. Columbus, Ohio Ross Laboratories. pp.102-133
- Fitzgerald, K. M.**, Cibis, G. W. (1994) The value of flash visual evoked potentials in albinism. *Journal of Pediatric Ophthalmology and Strabismus*. **31**;18-25.
- Fitzgerald, K. M.**, Cibis, G. W., Giambone, S. G., Harris, D. J. (1994) Retinal signal transmission in Duchenne muscular dystrophy: Evidence for dysfunction in the photoreceptor/depolarizing bipolar cell pathway. *The Journal of Clinical Investigation*. **93**; 2425-2430.
- Auestad, N., Montalto, M.B., Hall, R. T., **Fitzgerald, K. M.**, Wheeler, R. E., Connor, W. E., Neuringer, M., Conner, S. L., Taylor, J. T., Hartmann, E. E., (1997) Visual acuity, erythrocyte fatty acid composition, and growth in term infants fed formula with long chain polyunsaturated (LCP) fatty acids for one year. *Pediatric Research*. **41**; 1-10.
- Fitzgerald, K. M.**, Cibis, G. W., White, R. A. (1998) Dystrophin localization in cone cells. *Investigative Ophthalmology and Vision Science*. **39**; 218-219.
- Fitzgerald, K.M.**, Cibis, G. W., White, R. A. (1998) ERG in Duchenne/Becker muscular dystrophy. *Pediatric Neurology*. **19**: 400-401.
- Fitzgerald, K. M.**, Cibis, G. W., Gettel, A. H., Rinaldi, R. Harris, D. J., White, R. A. (1999) Retinal phenotype of a dystrophin gene mutation in heterozygous female carriers of Duchenne muscular dystrophy. *Journal of Medical Genetics*. **36**: 316-322.
- Pillers, D.-A., **Fitzgerald, K. M.**, Duncan, N. M., Rash, S. M., White, R. A., Dwinnell, S. J., Powell, B. R., Schnur, R. E., Ray, P. N., Cibis, G. W., Weleber, R. G. (1999) Duchenne/Becker muscular dystrophy: Correlation of phenotype by electroretinography with sites of dystrophin mutations. *American Journal of Human Genetics*. **105**:2-9.
- Varadharajan S, Lakshminarayanan V, **Fitzgerald K. M.**, Crognale M. (2000) Wavelet analysis and electrophysiological data. In: Ed: Lakshminarayanan V, Trends in Optics and Photonics Series, *Optical Society of America*, Washington DC. **35**:86-96.
- Hug, T. E., **Fitzgerald, K. M.**, Cibis, G. W. (2000) Clinical and Electroretinographic Findings in Fetal Alcohol Syndrome. *Journal for Pediatric Ophthalmology and Strabismus*. **14**:200-204.
- Smith, D. E., **Fitzgerald, K. M.**, Stass-Isern, M., Cibis, G. W. (2000) Electroretinography is Necessary for Spasmus Nutans Diagnosis. *Pediatric Neurology*. **23**:33-36.
- Fitzgerald, K. M.**, Cibis, G. W., Harris, D. J., Hashimoto, T. (2001) Autosomal dominant inheritance of a negative electroretinogram phenotype in three generations. *American Journal of Ophthalmology*. **131**:495-502.
- Auestad, N., Halter, R., Hall, R. T., Blattner, M., Bogle, M., Burks, W., Erickson, J.R., **Fitzgerald, K.M.**, Dobson, V., Innis, S.M., Singer, L.T., Montalto, M.B., Jacobs, J.R., Qiu, W., Bornstein, M.H. (2001) Growth and development in term infants fed long-chain polyunsaturated fatty acids: A double-masked, randomized, parallel, prospective, longitudinal, multivariate, study. *Pediatrics*. **108**; 372-381.
- O'Connor, D. L., Hall, R. T., Adamkin, D., Auestad, N., Castillo, M., Connor, W., Connor, S., **Fitzgerald, K. M.**, Groh-Wargo, S., Hartmann, E. E. Jacobs, J., Janowsky, J., Lucas, A., Margeson, D., Mena, P., Neuringer, M., Nesin, M., Singer, L., Stephenson, T., Szabo, J., Zemon, V., on behalf of the Ross Preterm Lipid Study. (2001) Growth and development in preterm infants fed long-chain polyunsaturated fatty acids: A prospective, randomized control trial. *Pediatrics*. **108**; 359-371.
- Cibis, G. W., **Fitzgerald, K. M.** (2001) The negative ERG is not synonymous with nightblindness. *Transactions of the American Ophthalmologic Society*. **99**; 171-176.
- Auestad, N., Scott, D. T., Janowsky, J. S., Jacobsen, C., Carroll, R. E., Montalto, M. B., Halter, R., Qui, W., Jacobs, J. R., Connor, W. E., Connor, W. K., Taylor, J. A., Neuringer, M., **Fitzgerald, K. M.**, Hall, R. T. (2003) Visual, cognitive and language assessments at 39 months: A follow-up study of children fed formulas containing long-chain polyunsaturated fatty acids to 1 year of age. *Pediatrics*. **112**; 177-183.
- O'Connor, D. L., Jacobs, J., Hall, R. T., Adamkin, D., Auestad, N., Castillo, M., Connor, W. E., Connor, S. L., **Fitzgerald, K. M.**, Groh-Wargo, S., Hartmann, E. E., Janowsky, J., Lucas, A., Margeson, D., Mena, P., Neuringer, M., Ross, G., Singer, L., Stephenson, T., Szabo, J., Zemon, V., (2003) on behalf of the Ross

