

## CURRICULUM VITAE James Toop, OD, PhD

PERSONAL DATA Born in Edinburgh, Scotland

CITIZENSHIP British; Permanent U.S. Resident

### EDUCATION

1969 BSc University of Edinburgh, Scotland (Genetics)

1974 PhD University of Edinburgh, Scotland (Human Genetics)

1984 OD New England College of Optometry, Boston, Mass. (Accelerated PhD to OD program)

### POSTGRADUATE TRAINING

1974-1976 Fellowship, Muscular Dystrophy Association of America, University of California, Los Angeles. *Area of Research:* Investigated aspects of the biochemical basis for histochemical staining of oxidative enzymes in skeletal muscle. These studies led to a pilot investigation of electron transport in muscle homogenates.

### FACULTY APPOINTMENTS

1976-1982 Instructor, Department of Neurology, University of Maryland School of Medicine. During this time (1978-80) on leave of absence as IPA Scientist in Laboratory of Neural Control, National Institute of Neurological and Communicative Disorders and Stroke, National Institutes of Health, Bethesda, Md.

1989-date Teaching Associate, University of Washington, Department of Ophthalmology, Seattle, Wash.

2012-date Director, Eyes on James Optical Shop, University of Washington, Department of Ophthalmology, Seattle, Wash.

### HOSPITAL POSITIONS HELD

1989-date Active Staff, UW Medicine/Harborview Medical Center, Seattle, Wash.

### PROFESSIONAL POSITIONS HELD

1984-1985 Optometrist in the office of Charles T. Post, Jr, MD (Ophthalmologist), Plymouth, Mass.

- 1985-1986 Associate Optometrist with Robert E. Bauer, OD, Bass River Optometrics, Cape Cod, Mass.
- 1987-1989 Associate Optometrist with Ron Coverdale, OD – two offices of Davis Optical, Seattle, Wash.
- 1989 (Jan–Oct) Optometrist (part-time Jan–April), office of Eye Care Associates, Bellingham, Wash. (Robert C. Bockoven, MD, Medical Director)

#### LICENSURE

Washington State

#### ORGANIZATIONS

American Optometric Association  
 Washington Association of Optometric Physicians

## Bibliography

### *Published Papers*

1. **TOOP J**, Webb JN, Emery AEH: Muscle differentiation in anencephaly. Develop Med Child Neurol 1973; 15: 164-170.
2. **TOOP J**, Jackson PD: Histochemical development of anterior horn cells in the human fetus. Int'l Res Commun Syst 1973; (73-10) 1-0-11.
3. **TOOP J**, Emery AEH: Muscle histology in fetuses at risk for Duchenne muscular dystrophy. Clin Genet 1974; 5: 230-233.
4. **TOOP J**: "The Development of Human Skeletal Muscle and its Motor Innervation," In: *Recent Advances in Myology*, Excerpta Medica, 1975; 322-329.
5. **TOOP J**: A rapid method for demonstrating skeletal muscle motor innervation in frozen sections. Stain Technol 1976; 51: 1-6.
6. Verity MA, **TOOP J**, McAdam LP, Pearson CM: Schleromyxedema myopathy. Histochemical and electron microscopic observations. Am J Clin Path 1978; 69:446-451.
7. **TOOP J**: Low-volume incubating chambers for histological and histochemical staining procedures. Stain Technol 1980; 55: 261-262.
8. Mayer RF, Burke RE, **TOOP J**, Hodgson JA, Kanda K, Walmsley B: The effects of long-term immobilization on the motor-unit population of the cat medial gastrocnemius muscle. Neuroscience 1981; 6: 725.
9. Dum RP, Burke RE, O'Donovan MJ, **TOOP J**, Hodgson JA: Motor unit organization in the flexor digitorum longus muscle of the cat. J Neurophysiol 1982; 41: 1108-25.
10. Boudreaux D, Verity MA, **TOOP J**: Procedure for low-speed isolation of rat and human skeletal muscle sarcoplasmic reticulum. Biochem Med 1982; 27: 342-51.

11. **TOOP J**, Burke RE, O'Donovan MJ, Smith CB: 2-Deoxyglucose autoradiography of single motor units: labelling of individual acutely active muscle fibers. J Neurosci Meth 1982; 5: 283-289.
12. Max SR, **TOOP J**: Androgens enhance *in vivo* 2-deoxyglucose uptake by rat striated muscle. Endocrinology 1983; 113: 119-26.
13. Mayer RF, Burke RE, **TOOP J**, Walmsley B, Hodgson JA: The effect of spinal cord transection on motor units in cat medial gastrocnemius muscle. Muscle & Nerve 1984; 7: 23-31.
14. Dum RP, O'Donovan MJ, **TOOP J**, Burke RE: Cross-reinnervated motor units in cat muscle: 1. Flexor digitorum longus muscle units reinnervated by soleus motoneurons. J Neurophysiol 1985; 54: 818-36.
15. Dum RP, O'Donovan MJ, **TOOP J**, Tsairis P, Pinter MJ, Burke RE: Cross-reinnervated motor units in cat muscle: 2. Soleus muscle reinnervated by flexor digitorum longus motoneurons. J Neurophysiol 1985; 54: 837-51.
16. Deal FC, **TOOP J**: Recommended coordinate systems for thin spherocylindrical lenses. Optometry & Vis Sci 1993; 70:409-413.

### Published Abstracts

1. **TOOP J**: The histochemical development of human skeletal muscle and its motor innervation. *3rd Intl' Congress on Muscle Disease*, p. 161 (Abstracts) Excerpta Medica, 1975.
2. **TOOP J**, Burke RE, Mayer RF, Kanda K, Walmsley B: The effect of joint immobilization on the histochemical and physiological properties of specific muscle fiber types. *4th Intl Congress on Neuromuscular Diseases* (Abstracts), No. 229, 1978.
3. **TOOP J**, Burke RE, Dum RP, O'Donovan MJ, Smith CB: 2-Deoxy<sup>[14C]</sup>glucose as a marker for identifying acutely active skeletal muscle fibers in individual motor units. Society for Neuroscience (Abstracts), 1979.
4. Burke RE, Dum RP, O'Donovan MJ, **TOOP J**, Tsairis P: Properties of soleus muscle and of individual soleus motor units after cross-innervation by FDL motor neurons. Society for Neuroscience (Abstracts), 1979.
5. Dum RP, Burke RE, O'Donovan MJ, **TOOP J**: The properties of whole FDL muscle and of individual FDL muscle units after cross-innervation by soleus motoneurons in cat. Society for Neuroscience (Abstracts), 1979.
6. Mayer RF, Burke RE, Kanda K, Walmsley B, **TOOP J**: Stability of motor unit types in cat medial gastrocnemius. Acta Neuro Science (Abstracts) 1979; 60: 156.

7. Burke RE, Dum RP, O'Donovan MJ, **TOOP J**, Tsairis P: Fast-slow nerve-muscle cross-union in the adult cat. Asymmetry of effects. Muscle & Nerve (Abstr) 1980; 3: 279.
8. Mayer RF, Burke RE, **TOOP J**, Walmsley B, Hodgson JA, Kanda K: Atrophy of cat medial gastrocnemius muscle in chronic spastic paraplegia is different from that in immobilization. Neurology 1980; 30: 414.
9. Max SR, **TOOP J**: Androgens enhance 2-deoxyglucose uptake by the rat levator animal muscle *in vivo*. J Cell Biol 1982; 95: A358.
10. Dudley DF, **TOOP J**, Wells CG, Kalina RE: Counteracting the effects of pharmacologic mydriasis with dapiprazole. Invest Ophthalmol Vis Sci (Suppl) 1994; 35(4): 1546 (ARVO Abstract #1369).