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**PROFESSIONAL EXPERIENCE:**

**2013-present    Research Technician Step III**  
Hunter James Kelly Research Institute  
School of Medicine and Biomedical Sciences  
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**1992-2012       Staff Research Associated Setp II**  
Intellectual and Developmental Disabilities Research Center  
David Geffen School of Medicine  
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**BIBLIOGRAPHY:**

**Research Papers - Peer Reviewed**

1. Paez PM, **Spreuer V**, Handley V, Feng JM, Campagnoni C and Campagnoni AT (**2007**). Increased Expression of Golli Myelin Basic Proteins Enhances Calcium Influx into Oligodendroglial Cells. *J Neurosci*. 27: 12690-12699.
2. Paez PM, Fulton DJ, **Spreuer V**, Handley V, Campagnoni CW, Macklin WB, Colwell C and Campagnoni AT (**2009**). Golli myelin basic proteins regulate oligodendroglial progenitor cell migration through voltage-gated Ca<sup>++</sup> influx. *J Neurosci*. 29: 6663-6676.
3. Paez PM, Fulton DJ, **Spreuer V**, Handley V, Campagnoni CW and Campagnoni AT (**2009**). Regulation of store-operated and voltage-operated Ca<sup>++</sup> channels in the proliferation and death of oligodendrocyte precursor cells by golli proteins. *ASN-Neuro* 1(1): 25-41.
4. Paez PM, Fulton DJ, **Spreuer V**, Handley V and Campagnoni AT (**2010**). Multiple kinase pathways regulate voltage-dependent Ca<sup>++</sup> influx and migration in oligodendrocyte precursor cells. *J Neurosci*. 30: 6422-6433.
5. Smith GST, Paez PM, **Spreuer V**, Campagnoni CW, Boggs JM, Campagnoni AT and Harauz G (**2011**). Classic 18.5 and 21.5 kDa isoforms of myelin basic protein inhibit calcium influx into oligodendroglial cells, in contrast to golli isoforms. *J Neurosci Res*. 89: 467-480.
6. Paez PM, Fulton DJ, **Spreuer V**, Handley V and Campagnoni AT (**2011**). Modulation of Canonical Transient Receptor Potential Channel 1 in the Proliferation of Oligodendrocyte Precursor Cells by the Golli Products of the Myelin Basic Protein Gene. *J Neurosci*. 31: 3625-3637.
7. Fulton DJ, Paez PM, **Spreuer V**, Handley V, Colwell CS, Campagnoni AT and Fisher R (**2011**). Developmental activation of the proteolipid protein (*PLP*) promoter transgene in neuronal and oligodendroglial cells of neostriatum in mice. *Dev Neurosci*. 33: 170-184.

8. Smith GST, De Avila M, Paez PM, **Spreuer V**, Wills MKB, Jones N, Boggs JM and Harauz G (2011). Proline substitutions and threonine pseudo-phosphorylation of the SH3-ligand of 18.5 kDa myelin basic protein decrease its affinity for the Fyn-SH3-domain and alter process development and protein localization in oligodendrocytes. *J Neurosci Res.* 90: 28-47.
9. Paez PM, Cheli VT, **Spreuer V**, Handley V and Campagnoni AT (2012). Golli myelin basic proteins stimulate oligodendrocyte progenitor cell proliferation and differentiation in remyelinating adult mouse brain. *Glia* 60: 1078-1093. \*Corresponding author.
10. Nobuta H, Ghiani CA, Paez PM, **Spreuer V**, Dong H, Korsak RA, Manukyan A, Li J, Sofroniew MV, Campagnoni AT, de Vellis J and Waschek JA (2012). Cross talk between reactive astrocytes and microglia protects myelin development after perinatal inflammatory insult. *Annals of Neurology* 72: 750-765.
11. Smith GST, Hawley S, Paez PM, Belo C, Wills MKB, **Spreuer V**, Boggs JM, Harauz G and Jones N (2013). The phosphotyrosine adaptor protein ShcD/Shc4 negatively regulates oligodendrocyte differentiation and central nervous system development. *J. Neurochem.* (submitted).