

NAME George Flentke	POSITION TITLE Scientist		
eRA COMMONS USER NAME			
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
North Carolina State University		1978-1979	Zoology
Purdue University, Dept. of Biochemistry	BS	1979-1982	Biochemistry
University of Wisconsin-Madison, Dept of Biochemistry	PhD	1982-1988	Biochemistry
Tufts University, Dept. of Biochem. And Pharmacol	Post-Doc	1988-1990	Biochem/Medicinal Chemistry

### PREVIOUS EMPLOYMENT AND EXPERIENCE

- 1988 - 1990 Postdoctoral Research Associate, Dept of Biochemistry and Pharmacology, Tufts University. With Dr. William Bachovchin
- 1990 - 1995 Associate Researcher, School of Pharmacy, University of Wisconsin-Madison. With Dr. Daniel H. Rich
- 1995 - 1999 Assistant Scientist, School of Pharmacy, University of Wisconsin-Madison. With Dr. Daniel H. Rich
- 1999 - 2000 Associate Researcher, Dept. Nutritional Sciences; Environmental Health Sciences Center for Developmental and Molecular Toxicology.
- 2000 - 2002 Associate Scientist, Dept. Nutritional Sciences; Environmental Health Sciences Center for Developmental and Molecular Toxicology.
- 2002 – present Scientist, Dept. Nutritional Sciences; University of Wisconsin-Madison.

### PUBLICATIONS

- Garic-Stankovic A., Hernandez MA, **Flentke GR**, Debelak-Kragtorp KA, Armant DR, **Smith SM**. 2005. Ethanol triggers neural crest apoptosis thru the selective activation of a pertussis toxin-sensitive G-protein and a phospholipase C $\beta$ -dependent Ca<sup>2+</sup> transient. *Alc. Clin. Exp. Res.* 29:1237-1246.
- Desai, T., S. Malpel, **GR Flentke**, S.M. Smith, W.V. Cardoso. 2004. Retinoic acid signaling is essential for FGF10 expression and respiratory tract morphogenesis in the developing foregut. *Dev. Biol.* 273:402-415.
- Flentke, G.R.**, M.W. Baker, K.E. Docterman, S. Power, J. Lough, S.M. Smith. 2004. Microarray analysis of retinoid-dependent gene activity during rat embryogenesis: increased collagen fibril production in a model of retinoid insufficiency. *Dev. Dyn.* 229:886-898.
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- Flentke G.R.** Glinski J., Satyshur K., Rich D.H. 1999. Purification and crystallization of rhizopuspepsin: The use of nickel chelation chromatography to select for catalytically active species. *Protein Expr. Purific.* 16:213-220.
- Fan X.D., **Flentke G.R.**, Rich D.H. 1998. Inhibition of HIV-1 protease by a subunit of Didemnaketol A. *J. Am. Chem. Soc.* 120:8893-8894.
- Raman P., Stokes S.S., Angell Y.M., **Flentke G.R.**, Rich, D.H. 1998. Methods to circumvent a difficult coupling in the solid-phase synthesis of cyclosporine analogues. *J. Org. Chem.* 63:5734-5735.
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- Angell YM. Thomas TL. **Flentke GR**. Rich DH 1995. Solid-phase synthesis of cyclosporin peptides. *J. Am. Chem. Soc.* 117:7279-7280.
- Gutheil WG, Subramanyam M, **Flentke, GR**, Sanford DG, Munoz E, Huber BT, Bachovchin WW. 1994. Human immunodeficiency virus 1 Tat binds to dipeptidyl aminopeptidase IV (CD26): a possible mechanism for Tat's immunosuppressive activity. *Proc Natl Acad Sci U S A.* 91:6594-6598.
- Kubota T, **Flentke GR**, Bachovchin WW, Stollar BD. 1992. Involvement of dipeptidyl peptidase IV in an in vivo immune response. *Clin Exp Immunol.* 89:192-197.
- Flentke GR**, Munoz E, Huber BT, Plaut AG, Kettner CA, Bachovchin WW. 1991. Inhibition of dipeptidyl aminopeptidase IV (DP-IV) by Xaa-boroPro dipeptides and use of these inhibitors to examine the role of DP-IV in T-cell function. *Proc Natl Acad Sci U S A.* 88:1556-1559.

- Flentke GR**, Frey PA. 1990. Reaction of uridine diphosphate galactose 4-epimerase with a suicide inactivator. *Biochemistry* 29:2430-2436.
- Bachovchin WW, Plaut AG, **Flentke GR**, Lynch M, Kettner CA. 1990. Inhibition of IgA1 proteinases from *Neisseria gonorrhoeae* and *Hemophilus influenzae* by peptide prolyl boronic acids. *J Biol Chem.* 265:3738-3743.
- Arabshahi A, **Flentke GR**, Frey PA. 1988. Uridine diphosphate galactose 4-epimerase. pH dependence of the reduction of NAD<sup>+</sup> by a substrate analog. *J Biol Chem.* 263:2638-2643.

#### PATENTS

- 5,462,928** Bachovchin, WW, Plaut AG, **Flentke;GR**. (1995) Inhibitors of dipeptidyl-aminopeptidase type IV
- 6,825,169** Bachovchin, WW, Plaut AG, **Flentke;GR**. (2004) Inhibitors of dipeptidyl-aminopeptidase type IV