

Curriculum vitae

Stephan-Michael Feller

Work address: Head and Neck Cancer Cell Signalling Group
Oxford Cancer Centre
Weatherall Institute of Molecular Medicine (WIMM)
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Academic appointments

From July 2007 Honorary NHS Research Scientist/Group Leader

July 2001 – June 2012 Research group head at WIMM, Oxford

March 2004 University Research Lecturer, Oxford University

Aug. 2000 Venia legendi, University Würzburg, Germany

April 2000 Offering of appointment as associate biologist
at M. D. Anderson Cancer Center
(includes independent research group leader
& faculty position at University of Texas). Declined.

June 1995 - 2001 Medical Institute for Radiation and Cell Research
Bavarian Julius-Maximilians-University
Würzburg, Germany
Independent junior research group leader (C1)

Advanced Education and Professional Training

March 1994 - June 1995 Rockefeller University
Laboratory of Molecular Oncology
Prof. H. Hanafusa
New York, USA
Postgraduate research

Sept.1990 - Jan. 1994 Rockefeller University
Laboratory of Molecular Oncology
Prof. H. Hanafusa
New York, USA
Graduate research (Ph.D. student)

Jan. 1990 - Aug. 1990	University of Medicine and Dentistry of New Jersey (UMDNJ) Department of Biochemistry Laboratory Prof. T.W. Wong Piscataway, NJ , USA Visiting researcher
Jan. 1988 - Dec. 1989	Institute for Anatomy and Cell Biology III, University of Heidelberg, Germany Scientific staff researcher
Feb. 1989	Diplom (M.S.) in Biology
April 1987 - Oct. 1988	Institute for Anatomy and Cell Biology III University of Heidelberg Research for Masters thesis Advisors: Prof. W. Nagl Prof. W.G. Forssmann
May 1985 - Feb. 1989	Studies for Masters Degree University of Kaiserslautern, Germany Department of Biology
Oct. 1985 - Dec. 1985	Research Center Aprath, Institute for Chemotherapy Bayer AG, Wuppertal, Germany Research student
July 1984 - Oct. 1984	Veterinary Research Institute Onderstepoort, Department of Molecular Biology Laboratory Dr. Verwoerd Onderstepoort, Rep. of South Africa Research student
Oct. 1981 - May 1985	Basic studies in Biology (equiv. to B.S.) University of Kaiserslautern Department of Biology

Professional memberships

European Cell Biology Association (ECBO)
New York Academy of Sciences (NYAS)
American Association for Cancer Research (AACR)
Signal Transduction Society (STS; member of advisory council since 2005)
Protein Module Consortium (PMC; board member since 2005)
Oxford Module Consortium (OMC; member of steering committee since 2006)

Fellowships and awards

Rockefeller University Graduate Fellow (1990-1993)
Merinoff Graduate Fellow (1993-1994)
AACR Young Investigator Travel Grant (1993)
Revson and Winston Foundation Postdoctoral Fellowship (1994-1995)

Reviewing activities

Funding agencies

Medical Research Council (MRC), Breast Cancer Campaign (UK),
Leukemia Research Fund (UK), National Science Foundation (USA),
German Research Council (Deutsche Forschungsgemeinschaft, Germany),
Bavarian Research Council (Bayerische Forschungstiftung, Germany),
Netherlands Organisation for Scientific Research - Earth & Life Sciences
(NOW-ALW)

Journals

BMC Journals, EMBO J, EMBO Report, Eur J Biochem, FEBS Lett,
Int J Cancer, J Biol Chem, J Mol Biol, Mol Cell Biol, Mol Cell Neurosci, Mol Pharmacol,
Oncogene, Proc Natl Acad Sci (USA), Signal Transduction, Structure etc.

Oxford, 9.1.2008

A handwritten signature in black ink that reads "Stephan Feller". The signature is written in a cursive style with a large, stylized 'S' and 'F'.

Stephan M. Feller, PhD

Selected publications of the applicant

Reviews

Backert, S., Feller, S.M., and Wessler, S. (2007) Emerging roles of Abl family tyrosine kinases in microbial pathogenesis. *Trends Biochem Sci.*, in press.

Feller, S.M., and Lewitzky M. (2006) Potential disease targets for drugs that disrupt protein – protein interactions of Grb2 and Crk family adaptors. *Curr. Pharm. Design* 12, 529-548.

Feller, S.M., Tuchscherer, G., and Voss, J. (2003) High affinity peptides disrupting Grb2-SoS complexes as a therapeutic approach in CML. *Leuk. Lymphom.* 44, 411-427.

Feller, S.M. (2001) Crk family adaptors: signalling complex formations and biological roles. *Oncogene* 20, 6348-6371.

Voss, J., Heisterkamp, N., Groffen, J., and Feller, S.M. (2001) Leukemic kinases of the Abl family - an update. *Signal Transduction* 1, 1-26.

Feller, S.M., Posern, G., Voss, J., Kardinal, C., Sakkab, D., Zheng, J., and Knudsen, B.S. (1998) Physiological signals and oncogenesis mediated through Crk family adapter proteins. *J. Cell. Physiol.* 177, 535-552.

Feller, S.M., Ren, R., Hanafusa, H. and Baltimore, D. (1994) SH2 and SH3 domains as molecular adhesives - the interactions of Crk and Abl. *Trends Biochem. Sci.* 19, 453-458.

Original publications

Emaduddin, M., Bicknell, D.C., Bodmer, W.F., and Feller, S.M. (2007) Cell growth, global phosphotyrosine elevation and c-Met phosphorylation through Src family kinases in colorectal cancer cells. *Proc. Natl. Acad. Sci. (USA)*, in press.

Benz, P.M., Blume, C., Moebius, J., Oschatz, C., Schuh, K., Sickmann, A., Walter, U., Feller, S.M., and Renne, T. (2007) Cortical actin cytoskeletons are regulated by protein kinase A-dependent interaction of VASP with alpha II-spectrin. *J. Cell Biol.*, in press.

Niendorf, S., Oksche, A., Kisser, A., Löhler, J., Prinz, M., Schorle, H., Feller, S.M., Lewitzky, M., Horak, I., and Knobloch, K.-P. (2007) Essential role of Ubiquitin specific protease 8 (UBPy) for receptor tyrosine kinase stability and endocytic trafficking in vivo. *Mol. Cell. Biol.* 27, 5029-5039.

Poppe, M., Römer, G., Feller, S.M., and Wessler, S. (2007) Phosphorylation of Helicobacter pylori CagA by c-Abl leads to cell motility. *Oncogene* 26, 3462-4372.

Harkiolaki, M., Gilbert, R.J.C., Jones, E.Y., and Feller, S.M. (2006) The C-terminal SH3 domain of the adaptor protein Crk-like (CRKL) functions as a dimerisation module. *Structure (Cell Press)* 14, 1741-1753.

Cadd, V.A., Hogg, P.J., Harris, A.L., and Feller, S.M. (2006) Molecular profiling of signalling proteins for effects induced by the anti-cancer compound GSAO with 400 antibodies. *BMC Cancer* 6(1):155.

Hogan, C., Serpente, N., Cogram, P., Hosling C.R., Bialucha, C.U., Feller, S.M., Braga V.M.M., Birchmeier, W., and Fujita, Y. (2004) Rap1 regulates the formation of E-cadherin-based cell-cell contacts. *Mol. Cell. Biol.* 24, 6690-6700.

Lewitzky, M., Harkiolaki, M., Domart, M.-C., Jones, E. Y., and Feller, S.M. (2004) Mona/Gads SH3C binding to hematopoietic progenitor kinase 1 (HPK1) combines an atypical SH3 binding motif, R/K-x-x-K, with a classical P-x-x-P motif embedded in a PPII helix. *J. Biol. Chem.* 279, 28724-28732.

- Harkiolaki, M., Lewitzky, M., Gilbert, R.J.C., Jones, E.J., Bourette, R.P., Mouchiroud, G., Sondermann, H., Moarefi, I, and Feller, S. M. (2003) Structural basis for SH3 domain-mediated high affinity binding between Mona/Gads and SLP-76. *EMBO J.* 22, 2571-2582.
- Feller, S.M., Wecklein, H., Lewitzky, M., Kibler, E. and Raabe, T. (2002) SH3 domain-mediated binding of the Drk protein to Dos is an essential step in signaling of *Drosophila* receptor tyrosine kinases. *Mech. Dev.* 116, 129-139.
- Kardinal, C., Konkol, B., Lin, H., Eulitz, M., Schmidt, E.K., Estrov, Z., Talpaz, M., Arlinghaus, R.B., and Feller, S.M. (2001) CML blast cell proliferation is inhibited by peptides which disrupt Grb2-SoS complexes. *Blood* 98, 1773-1781.
- Lewitzky, M., Kardinal, C., Gehring, N.H., Schmidt, E.K., Konkol, B., Eulitz, M., Birchmeier, W., Schaeper, U., and Feller, S.M. (2001) The C-terminal SH3 domain of the adapter protein Grb2 binds with high affinity to sequences in Gab1 and SLP-76 which lack the SH3-typical P-x-x-P core motif. *Oncogene* 20, 1052-1062.
- Sakkab, D., Kardinal, C., Lewitzky, M., Walburg, M., Knudsen, B.S., and Feller, S.M. (2001) Hepatocyte growth factor/scatter factor (HGF) signaling depends on Crk family adapter proteins. *Signal Transduct.* 1, 25-36.
- Posern, G., Rapp, U.R., and Feller, S.M. (2000) The Crk signaling pathway contributes to the bombesin-induced activation of the small GTPase Rap1 in Swiss 3T3 cells. *Oncogene* 19, 6361-6368.
- Kardinal, C., Konkol, B., Schulz, A., Posern, G., Lin, H., Adermann, K., Eulitz, M., Estrov, Z., Talpaz, M., Arlinghaus, R.B., and Feller, S.M. (2000) Cell-penetrating SH3 domain blocker peptides inhibit proliferation of primary blast cells from CML patients. *FASEB J.* 14, 1529-1538.
- Coutinho, S., Jahn, Th., Lewitzky, M., Feller, S.M., Hutzler, P., Peschel, C., and Duyster, J. (2000) Cloning and characterization of Grb4, a novel adaptor protein interacting with Bcr-Abl. *Blood* 96, 618-624.
- Voss, J., Posern, G., Hannemann, J.R., Wiedemann, L.M., Turhan, A.G., Poirel, H., Olivier, B., Kardinal, C., and Feller, S.M. (2000) The leukemic oncogenes Bcr-Abl and Tel-Abl have altered substrate preferences and activate similar intracellular signalling pathways. *Oncogene* 19, 1684-1690.
- Sakkab, D., Lewitzky, M., Posern, G., Schaeper, U., Sachs, M., Birchmeier, W. and Feller, S.M. (2000) Signaling of Hepatocyte growth factor/scatter factor (HGF) to the small GTPase Rap1 via the large docking protein Gab1 and the adapter protein CRKL. *J. Biol. Chem.* 275, 10772-10778.
- Ling, P., Yao, Z., Meyer, C.F., Wang, X.S., Oehrl, W., Feller S.M., and Tan, T.H. (1999) Interaction of hematopoietic progenitor kinase 1 with adapter proteins Crk and CRKL leads to synergistic activation of c-Jun N-terminal kinase. *Mol. Cell. Biol.* 19, 1359-1368.
- Oehrl, W., Kardinal, C., Ruf, S., Adermann, K., Groffen, J., Feng, G.-S., Blenis, J., Tan, T.-H., and Feller, S.M. (1998) The germinal center kinase (GCK)-related protein kinases HPK1 and KHS are candidates for highly selective signal transducers of Crk family adapter proteins. *Oncogene* 17, 1893-1902.
- Posern, G., Weber, Ch.K., Rapp, U.R., and Feller, S.M. (1998) Activity of Rap1 is regulated by Bombesin cell adhesion and cell density in NIH3T3 fibroblasts. *J. Biol. Chem.* 273, 24297-24300.
- Hock, B., Böhme, B., Karn, Th., Feller, S.M., Rüksamen-Waigmann, and Strebhardt, K. (1998). Tyrosine-614 is the major autophosphorylation site of the HEK2 receptor tyrosine kinase and functions as multi-docking site for the SH2-domain mediated association of RasGAP, Crk and Fyn. *Oncogene* 17, 255-260.
- Posern, G., Zheng, J., Knudsen, B.S., Kardinal, C., Müller, K.B., Voss, J., Shishido, T., Cowburn, D., Cheng, G., Wang, B., Kruh, G.D., Burrell, S.K., Jacobson, C.A., Lenz, D.M., Zamborelli, T.J., Adermann, K., Hidesaburo Hanafusa, H., and Feller, S.M. (1998) Development of highly selective SH3 binding peptides for Crk and CRKL which disrupt Crk-complexes with DOCK180, SoS and C3G. *Oncogene* 16, 1903-1912.

- Kharbanda, S., Ren, R., Pandey, P., Shafman, T.D., Feller, S.M., Weichselbaum, R.R. and Kufe, D.W. (1995) Activation of the c-Abl tyrosine kinase in the stress response to DNA-damaging agents. *Nature* 376, 785-788.
- Feller, S.M., Knudsen, B.S. and Hanafusa, H. (1995) Cellular proteins binding to the first Src homology 3 (SH3) domain of the proto-oncogene product c-Crk indicate Crk-specific signaling pathways. *Oncogene* 10, 1465-1472.
- Knudsen, B.S., Zheng, J., Feller, S.M., Mayer, J.P., Burrell, S.K., Sali, A., Cowburn, D. and Hanafusa, H. (1995) Affinity and specificity requirements for the first Src homology 3 domain of the Crk proteins. *EMBO J.* 14, 2191-2198.
- Maegert, H.J., Hadrys, T., Stanulla, A., Cieslack, A. Feller, S.M. and Forssmann, W.G. (1995) cDNA sequence and expression pattern of the mammalian pheromone Aphrodisin. *Proc. Natl. Acad. Sci. (USA)* 92, 2091-2095.
- Wu, X., Knudsen, B.S., Feller, S.M., Zheng, J., Cowburn, D., Hanafusa, H. and Kuriyan, J. (1995) Structural basis for the specific interaction of lysine-containing proline-rich peptides with the amino-terminal SH3 domain of c-Crk. *Structure* 3, 215-226.
- Knudsen, B.S., Feller, S.M. and Hanafusa, H. (1994) Four proline-rich sequences of a newly cloned guanine-nucleotide exchange factor, C3G, bind with unique specificity to the first Src Homology 3 domain of Crk. *J. Biol. Chem.* 269, 32781-32787.
- Feller, S.M., Knudsen, B. and Hanafusa, H. (1994) c-Abl kinase regulates the protein binding of c-Crk. *EMBO J.* 13, 2341-2351.