

CURRICULUM VITAE



Josef Gotzmann, Ph.D.

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Professional Address:

Max Perutz Laboratories
Centre of Medical Biochemistry
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Bibliography:

Born October 16th, 1969 in Vienna, Austria

Citizenship: Austrian

Unmarried, no children

Academic Education:

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| 2000 | <i>PhD in Biochemistry</i> (Institute of Cancer Research; University of Vienna)
Thesis: "Identification and Characterization of Novel Nuclear matrix Proteins".
Supervisors: Prof. Georg Sauermaun and Prof. Rolf Schulte-Hermann |
| 1995 | <i>Master Thesis</i> (Dept. of Biochemistry and Cell Biology; University of Vienna)
Thesis: "Cytoplasmic Dynein: Proteolysis of intermediate chains by Calpain".
Supervisors: Dr. Walter Steffen and Prof. Georg Wiche |
| 1987-1995 | Study of Biochemistry (study branch Chemistry) – University of Vienna |

Professional History:

2009-to date	<i>Head of Central Facility BioOptics-Section Light Microscopy</i> (Medical University of Vienna - Max F. Perutz Laboratories, Vienna, Austria)
2003-2009	Senior Research Assistant/Assistant Professor (Lab Roland Foisner; Dept. Medical Biochemistry; Medical University of Vienna, Vienna, Austria)
1999-2003	Research assistant (Lab Wolfgang Mikulits; Institute of Cancer Research, University of Vienna, Vienna, Austria)
1997-1999	Research associate (Lab Georg Saueremann; Institute of Cancer Research, University of Vienna, Vienna, Austria)
1996-1997	Contractual University Assistant (Lab Georg Saueremann; Institute of Cancer Research, University of Vienna, Vienna, Austria)
1996	Research associate (Lab Georg Saueremann; Institute of Cancer Research, University of Vienna, Vienna, Austria)

Relevant Activities/Experience:

Microscopy	widefield and confocal microscopy, spinning disc microscopy, TIRF microscopy, live imaging, medium-to-high content microscopy, FRAP and photomanipulation, laser microirradiation, laser capture microdissection, superresolution microscopy (STORM, SIM, Airy Scan)
Conferences	Regular attendance at microscopy-related meetings (e.g. ELMI, FOM)
Languages	German (native), English (fluent written and spoken)
Software	Image J/Fiji, ICI, Microscopy-related packages (ZEN, Cell-Sens, LAS, VisiView, Metamorph), Huygens (SVI), MS-Office, Photoshop / Illustrator,
Work Safety	<i>Laser Safety Officer</i> Training Course 2011 → Chief executive Laser Safety Officer at MPL
Data Safety	since 2018 Data Safety Co-Ordinator @ Max Perutz labs (MUV)

Teaching

Since 2010	Introductory lecture “Basics in Light Microscopy” (MPL internal; 12x per year)
Since 2008	“Practical Course in fluorescence-/confocal microscopy including image processing - for diploma, PhD and advanced students” (Univ. of Vienna/MUW)
Since 2004	Teaching and administration of (since 2012) the annual lecture course (9 lecturers) “Methods in Cell Biology”

Since 2002 Regular teaching Activities at the Medical University of Vienna: Biochemical Undergraduate Seminars/Practicals for Medical Students: Basic Level Chemistry, Genetics and Biochemistry Courses for Medical Students; Self-Organized Learning Courses; Problem Based Learning Seminars

Since 2001 (Biennial) Lectures in the University Post-Graduate courses „Tumor Biology“ and “Toxicology”, respectively

Supervision of Students: numerous (>20) undergraduate students, 3 diploma students, 1 PhD student

Third Party Funding

2017 Co-Applicant with Dea Slade/Kareem Elsayad of WWTF-NEXT grant (49k€) – “Applying a new UV laser-based module to monitor protein-protein interactions after DNA damage using time-resolved spectroscopy

2014 Co-Applicant with Dea Slade/Kareem Elsayad of WWTF-grant (517k€) “Imaging recruitment of chromatin remodelling proteins to the sites of DNA damage induced by laser microirradiation” (WWTF call “Imaging - Innovative biological and biomedical applications of novel imaging technologies”)

2005 Collaborative Project with the Swedish Human Proteome Resource (www.hpr.se) – Material (Antibody Production and Analysis) only

2002 Hochschuljubiläumsstiftung Vienna – EURO 6.8k€

2000 Hochschuljubiläumsstiftung Vienna – EURO 6.1k€

Memberships to Scientific Societies

Since 2011 Austrian Biophysical Society

Since 2009 European Light Microscopy Initiative

Since 2009 Royal Microscopical Society – UK (Fellow)

Since 1995 Austrian Society of Biochemistry and Molecular Biology

Vienna, 2019

PUBLICATION RECORD

1. Garbrecht J, Hornegger H, Herbert S, Kaufmann T, **Gotzmann J**, Elsayad K and Slade D (2018) Simultaneous dual-channel imaging to quantify interdependent protein recruitment to laserinduced DNA damage sites. *Nucleus*;9(1),474-491.<https://doi.org/10.1080/19491034.2018.1516485>
2. Kaufmann T, G.I., Polyansky AA, Kostrhon S, Kukolj E, Olek KM, Herbert S, Beltzung E, Mechtler K, Peterbauer T, Gotzmann J, Zhang L, Hartl M, Zagrovic B, Elsayad K, DjinoVIC-Carugo K and Slade D. (2017) A novel non-canonical PIP-box mediates PARG interaction with PCNA. *Nucleic Acids Res.*;45(16):9741-9759.
3. Brachner, A., Braun, J., Ghodgaonkar, M., Castor, D., Zlopasa, L., Ehrlich, V., Jiricny, J., Gotzmann, J., Knasmuller, S. and Foisner, R. (2012) The endonuclease Ankle1 requires its LEM and GIY-YIG motifs for DNA cleavage in vivo. *Journal of Cell Science*, 125, 1048-1057.
4. Schneider, M., Lu, W.S., Neumann, S., Brachner, A., Gotzmann, J., Noegel, A.A. and Karakesisoglou, I. (2011) Molecular mechanisms of centrosome and cytoskeleton anchorage at the nuclear envelope. *Cellular and Molecular Life Sciences*, 68, 1593-1610.
5. Lu, W.S., Gotzmann, J., Sironi, L., Jaeger, V.M., Schneider, M., Luke, Y., Uhlen, M., Szigyarto, C.A.K., Brachner, A., Ellenberg, J. et al. (2008) Sun1 forms immobile macromolecular assemblies at the nuclear envelope. *Biochimica Et Biophysica Acta-Molecular Cell Research*, 1783, 2415-2426.
6. Naetar, N., Hutter, S., Dorner, D., Dechat, T., Korbei, B., Gotzmann, J., Beug, H. and Foisner, R. (2007) LAP2 alpha-binding protein LINT-25 is a novel chromatin-associated protein involved in cell cycle exit. *Journal of Cell Science*, 120, 737-747.
7. Margalit, A., Brachner, A., Gotzmann, J., Foisner, R. and Gruenbaum, Y. (2007) Barrier-to-autointegration factor - a BAFfling little protein. *Trends in Cell Biology*, 17, 202-208.
8. Dorner, D., Gotzmann, J. and Foisner, R. (2007) Nucleoplasmic lamins and their interaction partners, LAP2 alpha, Rb, and BAF, in transcriptional regulation. *Febs Journal*, 274, 1362-1373.
9. Gotzmann, J. and Foisner, R. (2006) A-type lamin complexes and regenerative potential: a step towards understanding laminopathic diseases? *Histochemistry and Cell Biology*, 125, 33-41.
10. Gotzmann, J., Fischer, A.N.M., Zojer, M., Mikula, M., Proell, V., Huber, H., Jechlinger, M., Waerner, T., Weith, A., Beug, H. et al. (2006) A crucial function of PDGF in TGF-beta-mediated cancer progression of hepatocytes. *Oncogene*, 25, 3170-3185.
11. Dorner, D., Vlcek, S., Foeger, N., Gajewski, A., Makolm, C., Gotzmann, J., Hutchison, C.J. and Foisner, R. (2006) Lamina-associated polypeptide 2 alpha regulates cell cycle

progression and differentiation via the retinoblastoma-E2F pathway. *Journal of Cell Biology*, 173, 83-93.

12. Taylor, M.R.G., Slavov, D., Gajewski, A., Vlcek, S., Ku, L., Fain, P.R., Carniel, E., Di Lenarda, A., Sinagra, G., Boucek, M.M. et al. (2005) Thymopoietin (lamina-associated polypeptide 2) gene mutation associated with dilated cardiomyopathy. *Human Mutation*, 26, 566-574.
13. Padmakumar, V.C., Libotte, T., Lu, W.S., Zaim, H., Abraham, S., Noegel, A.A., Gotzmann, J., Foisner, R. and Karakesisoglou, L. (2005) The inner nuclear membrane protein Sun1 mediates the anchorage of Nesprin-2 to the nuclear envelope. *Journal of Cell Science*, 118, 3419-3430.
14. Fischer, A.N.M., Herrera, B., Mikula, M., Proell, V., Fuchs, E., Gotzmann, J., Schulte-Hermann, R., Beug, H. and Mikulits, W. (2005) Integration of Ras subeffector signaling in TGF-beta mediated late stage hepatocarcinogenesis. *Carcinogenesis*, 26, 931-942.
15. Brachner, A., Reipert, S., Foisner, R. and Gotzmann, J. (2005) LEM2 is a novel MAN1-related inner nuclear membrane protein associated with A-type lamins. *Journal of Cell Science*, 118, 5797-5810.
16. Gotzmann, J., Mario, M., Eger, A., Schulte-Hermann, R., Foisner, R., Beug, H. and Mikulits, W. (2004) Molecular aspects of epithelial cell plasticity: implications for local tumor invasion and metastasis. *Mutation Research-Reviews in Mutation Research*, 566, 9-20.
17. Eger, A., Stockinger, A., Park, J., Langkopf, E., Mikula, M., Gotzmann, J., Mikulits, W., Beug, H. and Foisner, R. (2004) beta-Catenin and TGF beta signalling cooperate to maintain a mesenchymal phenotype after FosER-induced epithelial to mesenchymal transition. *Oncogene*, 23, 2672-2680.
18. Mikula, M., Gotzmann, J., Fischer, A.N.M., Wolschek, M.F., Thallinger, C., Schulte-Hermann, R., Beug, H. and Mikulits, W. (2003) The proto-oncoprotein c-Fos negatively regulates hepatocellular tumorigenesis. *Oncogene*, 22, 6725-6738.
19. Meissner, M., Lopato, S., Gotzmann, J., Sauermaun, G. and Barta, A. (2003) Proto-oncoprotein TLS/FUS is associated to the nuclear matrix and complexed with splicing factors PTB, SRm160, and SR proteins. *Experimental Cell Research*, 283, 184-195.
20. Schulte-Hermann, R., Bursch, W., Gotzmann, J., Grasl-Kraupp, B., Mikulits, W., Parzefall, W., Rossmannith, W. and Vejda, S. (2002) TGF-beta-induced liver cell apoptosis.
21. Gotzmann, J., Huber, H., Thallinger, C., Wolschek, M., Jansen, B., Schulte-Hermann, R., Beug, H. and Mikulits, W. (2002) Hepatocytes convert to a fibroblastoid phenotype through the cooperation of TGF-beta 1 and Ha-Ras: steps towards invasiveness. *Journal of Cell Science*, 115, 1189-1202.
22. Gerner, C., Vejda, S., Gelbmann, D., Bayer, E., Gotzmann, J., Schulte-Hermann, R. and Mikulits, W. (2002) Concomitant determination of absolute values of cellular protein

amounts, synthesis rates, and turnover rates by quantitative proteome profiling. *Molecular & Cellular Proteomics*, 1, 528-537.

23. Gerner, C., Gotzmann, J., Frohwein, U., Schamberger, C., Ellinger, A. and Sauer mann, G. (2002) Proteome analysis of nuclear matrix proteins during apoptotic chromatin condensation. *Cell Death and Differentiation*, 9, 671-681.
24. Gotzmann, J., Vlcek, S. and Foisner, R. (2000) Caspase-mediated cleavage of the chromosome-binding domain of lamina-associated polypeptide 2 alpha. *Journal of Cell Science*, 113, 3769-3780.
25. Gotzmann, J., Meissner, M. and Gerner, C. (2000) The fate of the nuclear matrix-associated-region-binding protein SATB1 during apoptosis. *Cell Death and Differentiation*, 7, 425-438.
26. Gotzmann, J., Gerner, C., Meissner, M., Holzmann, K., Grimm, R., Mikulits, W. and Sauer mann, G. (2000) hNMP 200: A novel human common nuclear matrix protein combining structural and regulatory functions. *Experimental Cell Research*, 261, 166-179.
27. Gotzmann, J. and Gerner, C. (2000) A method to produce Ponceau replicas from blots: Application for Western analysis. *Electrophoresis*, 21, 523-525.
28. Gerner, C., Frohwein, U., Gotzmann, J., Bayer, E., Gelbmann, D., Bursch, W. and Schulte-Hermann, R. (2000) The Fas-induced apoptosis analyzed by high throughput proteome analysis. *Journal of Biological Chemistry*, 275, 39018-39026.
29. Gotzmann, J. and Foisner, R. (1999) Lamins and lamin-binding proteins in functional chromatin organization. *Critical Reviews in Eukaryotic Gene Expression*, 9, 257-265.
30. Gerner, C., Holzmann, K., Meissner, M., Gotzmann, J., Grimm, R. and Sauer mann, G. (1999) Reassembling proteins and chaperones in human nuclear matrix protein fractions. *Journal of Cellular Biochemistry*, 74, 145-151.
31. Dechat, T., Gotzmann, J., Stockinger, A., Harris, C.A., Talle, M.A., Siekierka, J.J. and Foisner, R. (1998) Detergent-salt resistance of LAP2 alpha in interphase nuclei and phosphorylation-dependent association with chromosomes early in nuclear assembly implies functions in nuclear structure dynamics. *Embo Journal*, 17, 4887-4902.
32. Gotzmann, J., Eger, A., Meissner, M., Grimm, R., Gerner, C., Sauer mann, G. and Foisner, R. (1997) Two-dimensional electrophoresis reveals a nuclear matrix-associated nucleolin complex of basic isoelectric point. *Electrophoresis*, 18, 2645-2653.