Curiculum Vitae - Jürgen Kleine-Vehn

PROFESSIONAL DEVOLOPMENT:

01/2011-present	**BOKU (University of Natural Resources and Life Sciences)**, Vienna WWTF Research Group Leader Department für Angewandte Genetik und Zellbiologie (DAGZ)
6/2009-12/2010	**GHENT UNIVERSITY**, Belgium Project leader Plant System Biology, Gent Prof. Dr. Jiri Friml
09/2008-6/2009	**GHENT UNIVERSITY**, Belgium Postdoctoral fellow Plant System Biology, Gent Prof. Dr. Jiri Friml
08/2007-09/2008 09/2008	**GHENT UNIVERSITY**, Belgium **PhD in Biotechnology: *"intracellular trafficking and polar targeting of auxin transport components"*** VIB, Plant System Biology, Gent Supervisor: Prof. Dr. Jiri Friml
04/2006-08/2007	**EBERHARD-KARLS-UNIVERSITY TÜBINGEN**, Germany PhD student Developmental genetics, Tübingen Supervisor: Prof. Dr. Jiri Friml
04/2006	**MANAGEMENT CENTRE EUROPE (MCE)**, Brussel/ Belgium **"Mini-MBA for the life science industry"**
01/2006-04/2006	**JOLINE**, Hechingen/ Germany Project manager Medical engineering of catheters for vascular access CEO: Lars Sunnanväder
11/2002-04/2003	**UNIVERSITY OF STANFORD**, USA Graduate student Developmental genetics, Stanford Supervisor: Prof. Dr. Margaret T Fuller/Prof. Dr. Leanne D Jones
10/1999-01/2005 10/2001 01/2005 03/2004-11/2004	**EBERHARD-KARLS-UNIVERSITY TÜBINGEN**, Germany **Vordiplom Biologie (equates to "Bachelor of Science"), Diplom Biologie (equates to "Master of Science")**, Final grade: 1,0 Cell Biology, Genetic, Biochemistry **Diplomarbeit (equates to "Master thesis"):** *"**mechanisms of apical and basal polar targeting of auxin transport components in plant cells"*** (GPA: 1,0) Developmental Genetics, Tübingen Supervisor: Prof. Dr. Jiri Friml

AWARDS:

Since 08/2008	**Faculty of 1000,** Associate Faculty Member
10/2001-01/2005	**Friedrich-Ebert-Stiftung,** Scholar
Since 01/2011	**WWTF Young Investigator**, Scholar

POTENTIAL REFERENCES:

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PEER REVIEW PUBLICATIONS:

Sauer M, **Kleine-Vehn J.** (2011) AUXIN BINDING PROTEIN1: the outsider. ***Plant Cell***. 23(6):2033-43.
*IF: 9.653; 0 times cited**

Zwiewka M, Feraru E, Möller B, Hwang I, Feraru MI, **Kleine-Vehn J**, Weijers D, Friml J. (2011) The AP-3 adaptor complex is required for vacuolar function in Arabidopsis. ***Cell Res***. doi: 10.1038/cr.2011.99.
*IF: 9.417; 0 times cited**

Zhang J, Vanneste S, Brewer PB, Michniewicz M, Grones P, **Kleine-Vehn J**, Löfke C, Teichmann T, Bielach A, Cannoot B, Hoyerová K, Chen X, Xue HW, Benková E, Zažímalová E, Friml J. (2011) Inositol trisphosphate-induced Ca2+ signaling modulates auxin transport and PIN polarity. ***Dev Cell.*** 20(6):855-66.
*IF: 13.946; 0 times cited**

Ding Z, Galván-Ampudia CS, Demarsy E, Langowski L, **Kleine-Vehn J**, Fan Y, Morita MT, Tasaka M, Fankhauser C, Offringa R, Friml J. (2011) Light-mediated polarization of the PIN3 auxin transporter for the phototropic response in Arabidopsis. **Nat Cell Biol**. 13(4):447-52.
*IF: 19.527; 3 times cited**

Feraru E, Feraru MI, **Kleine-Vehn J**, Martinière A, Mouille G, Vanneste S, Vernhettes S, Runions J, Friml J. (2011) PIN Polarity Maintenance by the Cell Wall in Arabidopsis. **Curr Biol**. 21(4):338-43.
*IF: 10.539; 9 times cited**

Wabnik K[§], **Kleine-Vehn J[§$]**, Balla J, Sauer M, Naramoto S, Reinöhl V, Merks RM, Govaerts W, Friml J[$]. (2010) Emergence of tissue polarization from synergy of intracellular and extracellular auxin signaling. **Mol Syst Biol**. 6:447.
*IF: 12.125; 9 times cited**

Kleine-Vehn J, Ding Z, Jones AR, Tasaka M, Morita MT, Friml J. (2010) Gravity-induced PIN transcytosis for polarization of auxin fluxes in gravity-sensing root cells. **Proc Natl Acad Sci USA**. 107(51):22344-9.
*IF: 9.598; 10 times cited**

Naramoto S, **Kleine-Vehn J**, Robert S, Fujimoto M, Dainobu T, Paciorek T, Ueda T, Nakano A, Van Montagu MC, Fukuda H, Friml J. (2010) ADP-ribosylation factor machinery mediates endocytosis in plant cells. **Proc Natl Acad Sci USA**.
*IF: 9.598; 3 times cited**

Robert S[§], **Kleine-Vehn J[§]**, Barbez E, Sauer M, Paciorek T, Baster P, Vanneste S, Zhang J, Simon S, Čovanová M, Hayashi K, Dhonukshe P, Yang Z, Bednarek SY, Jones AM, Luschnig C, Aniento F, Zažímalová E, Friml J. (2010) ABP1 mediates auxin inhibition of clathrin-dependent endocytosis in Arabidopsis. **Cell**. 143(1):111-21.
*IF: 31.152; 20 times cited**

Dhonukshe P, Huang F, Galvan-Ampudia CS, Mähönen AP, **Kleine-Vehn J**, Xu J, Quint A, Prasad K, Friml J, Scheres B, Offringa R. (2010) Plasma membrane-bound AGC3 kinases phosphorylate PIN auxin carriers at TPRXS(N/S) motifs to direct apical PIN recycling. **Development**. 137(19):3245-55.
*IF: 7.194; 8 times cited**

Feraru E, Paciorek T, Feraru MI, Zwiewka M, De Groodt R, De Rycke R, **Kleine-Vehn J**, Friml J. (2010) The AP-3 β adaptin mediates the biogenesis and function of lytic vacuoles in Arabidopsis. **Plant Cell**. 22(8):2812-24.
*IF: 9.653; 1 times cited**

Langowski L, Ruzicka K, Naramoto S, **Kleine-Vehn J**, Friml J. (2010) Trafficking to the outer polar domain defines the root-soil interface. ***Curr Biol.*** 20(10):904-8.
*IF: 10.539; 8 times cited**

Kleine-Vehn J, Huang F, Naramoto S, Zhang J, Michniewicz M, Offringa R, and Friml J (2009) PIN auxin efflux carrier polarity is regulated by PINOID kinase-mediated recruitment into GNOM-independent trafficking in Arabidopsis. ***Plant Cell.*** 21(12):3839-49.
*IF: 9.653; 22 times cited**

Jelínková A, Malínská K, Simon S, **Kleine-Vehn J**, Pařezová M, Pejchar P, Kubeš M, Martinec J, Friml J, Zažímalová E, Petrášek J. (2009) Probing plant membranes with FM dyes: tracking, dragging or blocking? ***Plant J.*** 61(5):883-892.
*IF: 6.493; 7 times cited**

Kleine-Vehn J, Leitner J, Zwiewka M, Sauer M, Abas L, Luschnig C, Friml J. (2008) Differential degradation of PIN2 auxin efflux carrier by retromer-dependent vacuolar targeting. ***Proc Natl Acad Sci U S A.*** 105(46):17812-7
*IF: 9.598; 61 times cited**

Kleine-Vehn J, Langowski L, Wisniewska J, Dhonukshe P, Brewer P B, and Friml J (2008) Cellular and Molecular Requirements for Polar PIN Targeting and Transcytosis in Plants. ***Mol Plant.*** 1(6):1056-1066
*IF: n/a; 20 times cited**

Kleine-Vehn J and Friml J (2008) Polar Targeting and Endocytic Recycling in Auxin-Dependent Plant Development. ***Annu. Rev. Cell Dev. Biol.*** 24:447-473
*IF: 23.69; 55 times cited**

Kleine-Vehn J, Dhonukshe P, Sauer M, Brewer PB, Wiśniewska J, Paciorek T, Benková E, Friml J (2008) ARF GEF-dependent transcytosis and polar delivery of PIN auxin carriers in Arabidopsis. ***Curr Biol.*** 18(7):526-531
*IF: 10.539; 72 times cited**

Kleine-Vehn J, Dhonukshe P, Swarup R, Benett M and Friml J (2006) Subcellular trafficking of the *Arabidopsis* auxin influx carrier AUX1 uses a novel pathway distinct from PIN1. ***Plant Cell.*** 18(11):3171-3181
*IF: 9.653; 89 times cited**
F1000 factor: 4,8 (must read), www.f1000biology.com/article/id/1059080/evaluation

Dhonukshe P, **Kleine-Vehn J**, Friml J. (2005) Cell polarity, auxin transport, and cytoskeleton-mediated division planes: who comes first? ***Protoplasma.*** 226(1-2):67-73
*IF: 1.493; 13 times cited**

Paciorek T, Zazimalova E, Ruthardt N, Petrasek J, Stierhof YD, **Kleine-Vehn J**, Morris DA, Emans N, Jurgens G, Geldner N, Friml J. (2005) Auxin inhibits endocytosis and promotes its own efflux from cells. ***Nature.*** 435(7046):1251-1256
*IF: 28.751; 252 times cited**
F1000 factor: 4,9 (must read), www.f1000biology.com/article/id/1026602/evaluation

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