

# ISFR International Society for Fracture Repair

05.09.-07.09.2011 FESTUNG MARIENBERG IN WÜRZBURG

## Program

» MONDAY, SEPTEMBER 5<sup>TH</sup>

	<b>Chair</b>	<b>D. Marsh, F. Jakob</b>
<b>12.00 a.m.</b>	<b>Welcome and Introduction</b>	<b>G. Duda, F. Jakob</b>
12.10 - 12.35 p.m.	The physiology of fracture healing – Update 2011	D. Little (Sydney)
12.35 - 1.00 p.m.	Mechanical constrains of bone healing – employ mechanobiology to foster healing	G. Duda (Berlin)
<b>1.00 - 6.00 p.m.</b>	<b>Fracture healing and Aging</b>	
1.00 - 1.30 p.m.	Organismal aging	F. Jakob (Wuerzburg)
1.30 - 2.00 p.m.	Keynote on Aging in Mesenchymal Stem Cells	W. Wagner (Aachen)
2.00 - 2.30 p.m.	Fracture healing in a model of aged rats	S. Geissler (Berlin)
2.30 - 3.00 p.m.	Coffee Break	
	<b>Chair</b>	<b>P. Aspenberg, T. Schinke</b>
3.00 - 3.20 p.m.	The transcriptome in MSC from osteoporotic donors is distinct from MSC of 80+ donors	P. Benisch, (Wuerzburg)
3.20 - 3.50 p.m.	Clinical outcomes in elderly and oldest old with comorbidities	D. Marsh (Stanmore)
3.50 - 4.20 p.m.	The bone target: Compounds in the pipeline – Intervention strategies to enhance fracture healing in the elderly	M. Kneissl (Basel)
4.20 - 6.00 p.m.	Poster Discussion Poster: Loss of syndecan-4 results in increased callus and cartilage formation during fracture healing (Hidding, H., et al.) Poster: Inter-species investigation of the mechanical regulation of bone healing (Checa S, et al); Poster: Systemic inflammation alters the cellular composition of the early fracture callus (Recknagel, S. et al.)	
<b>6.00 p.m.</b>	<b>Get together</b>	

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## Program

» TUESDAY, SEPTEMBER 6<sup>TH</sup>

	<b>Chair</b>	<b>A. Ignatius, D. Little</b>
<b>8.30 - 12.00 a.m.</b>	<b>Fracture healing and immune system</b>	
8.30 - 9.00 a.m.	The immuno – bone interface	J.P. David, (Erlangen)
9.00 - 9.30 a.m.	The innate immune system and bone biology	M. Huber-Lang, A. Ignatius (Ulm)
9.30 - 10.00 a.m.	The adaptive immune system and bone biology	C. Hyun-Dong (Berlin)
10.00 - 10.30 a.m.	Coffee Break	
	<b>Chair</b>	<b>J.P. David, G. Duda</b>
10.30 - 11.00 a.m.	B and T-cells and fracture healing	K. Schmidt-Bleek (Berlin)
11.00 - 11.15 a.m.	Presentation: Fracture healing in immune deficient Nod-scid IL2R1 <sup>3</sup> null mice	R. Bindl, St. Recknagel, A. Rapp, A. Erbacher, I. Müller, A. Ignatius (Ulm)
11.15 - 11.35 a.m.	Presentation: C5aR-antagonist significantly reduces the deleterious effect of a blunt chest trauma on fracture healing Bone cells as target for activated complement	St. Recknagel, R. Bindl, T. Wehner, C. Ehrnthaller, F. Gebhard, M. Huber- Lang, L. Claes, A. Ignatius (Ulm)
11.35 - 12.00 a.m.	Poster Discussion Poster: The role of complement in bone healing: Fracture healing in C3 and C5-deficient mice  Poster: Bone cells as target for activated complement	Ehrnthaller C., Bindl R., Huber-Lang M., Reck- nagel S., A. Ignatius (Ulm)  P. Schoengraf, L. Kreja, A. Liedert, M. Huber-Lang, A. Ignatius (Ulm)
12.00 - 1.00 p.m.	“Exploring the horizon of antiosteoporotic treatment” Servier Lunch-Symposium)	A. Kurth, (Mainz)
1.00 - 2.00 p.m.	Lunch	

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» TUESDAY, SEPTEMBER 6<sup>TH</sup>

	<b>Chair</b>	<b>M. Huber-Lang, A. Kurth</b>
<b>2.00 - 6.00 p.m.</b>	<b>Fracture healing under compromised conditions</b>	
2.00 - 2.30 p.m.	Osteoporosis and fracture healing – is there a clinical problem?	M. Schieker (München)
2.30 - 3.00 p.m.	Mouse models in osteoporosis	T. Schinke (Hamburg)
3.00 - 3.30 p.m.	Large animal models for osteoporosis including transgenics	R. Oheim, M. Amling, E. Wolf,
3.30 - 4.00 p.m.	Coffee Break	
	<b>Chair</b>	<b>M. Schieker, R. Meffert</b>
4.00 - 4.25 p.m.	Fracture healing in mouse models of osteoporosis	A. Ignatius (Ulm)
4.25 - 4.50 p.m.	Poster: Conversion from external fixator to intramedullary nail impairs fracture healing particularly after severe trauma	St. Recknagel (Ulm)
4.50 - 5.10 p.m.	Candidate functional gene clusters in osteoporotic MSC	R. Ebert (Wuerzburg)
5.10 - 5.40 p.m.	Bisphosphonates: implant fixation and stress fractures	P. Aspenberg, (Linköping)
5.40 - 6.00 p.m.	The rat model to study implant healing considering risk factors and anabolic therapies	R. Gruber (Vienna)
<b>7.00 p.m.</b>	<b>Wine Tasting</b>	

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» WEDNESDAY, SEPTEMBER 7<sup>TH</sup>

	Chair	L. Claes, R. Gruber
8.30 - 12.00 a.m.	Fracture healing under compromised conditions (continued)	
8.30 - 9.00 a.m.	Tissue trauma and fracture healing	R. Meffert (Wuerzburg)
9.00 - 9.45 a.m.	Poster Session with Coffee Poster: Metaphyseal fracture healing under stable and flexible fixation (Claes, L et al.); Poster: A thoracic trauma impairs fracture healing in rats (Recknagel, S et al.)	
9.45 - 10.15 a.m.	Past and future of research in fracture healing	E. Chao (Baltimore)
10.15 - 11.00 a.m.	Roundtable discussion hot stuff and future directions of research	E. Chao, M. Kneissl, Little, A. Ignatius, M. Schinke, P. Aspenberg, D. Marsh
11.30 - 12.00 p.m.	Wrap Up and Farewell	F. Jakob and G. Duda
12.00 p.m.	Concluding remarks and Farewell	

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