



9th International Symposium on Carbanion Chemistry

ISCC-9

Florence, Italy July 20-24 2010



Scientific Programme

Tuesday, July 20

Salone dei Cinquecento, Palazzo Vecchio

17.30 Openings

Chairperson: Reinhard W. Hoffmann

18.00 IL-1 Manfred Schlosser

About organolithiums and carbanions

19.00 Welcome Cocktail

20.00 Night visit of Palazzo Vecchio

Wednesday, July 21

Aula Convegni, Building D6, Polo delle Scienze Sociali

Chairperson: Hans J. Reich

9.00 IL-2 Varinder Aggarwal

Reactions of lithiated carbamates with boron reagents: Retention or inversion

9.45 IL-3 Alessandro Abbotto

Molecular photovoltaics: Design and tuning of properties

10.30 OP-1 Keith Smith

Synthesis of Heterocycles by Lithiation of *N*-Benzylamides

10.45 Coffee Break

Chairperson: Iain Coldham

- 11.15 OP-2 **Robert Mulvey**
Multicomponent Metallating Agents: Structurally Engineered for Special Reactivity
- 11.30 OP-3 **Jayanta Kumar Ray**
Thiol mediated tandem Michael-Aldol reaction: A general method for the synthesis of fused cyclopentenone
- 11.45 IL-4 **Hélène Lebel**
Toward the formation of C-C bonds via transition metal-catalyzed processes
- 12.30 IL-5 **Ilhyong Ryu**
Some unique anionic strategies for multi-component coupling reactions
- 13.15 Lunch

14.30 Poster Session

Chairperson: Serafino Gladioli

- 15.30 IL-6 **Fabrice Chemla**
Organozinc compounds and enantioselective synthesis of heterocycles
- 16.15 OP-4 **Jonathan Brekan**
Silyloxyallenes as α -Acylvinyl Anion Equivalents
- 16.30 OP-5 **Atsushi Kawachi**
Ortho Magnesiumation of Boron-substituted Benzenes Using (TMP)₂Mg
- 16.45 OP-6 **Matthias Mayer**
IRONING IT OUT: A Unifying Concept for Iron Catalyzed Cross Coupling Reactions

17.00 Coffee Break

Chairperson: Giuliano Giambastiani

- 17.30 OP-7 **Elena Petrushkina**
Allylic alkylation of substituted sodium diethyl malonate, catalyzed by phosphine free Pd catalyst. Influence of bulky of malonate carbanion on selectivity and yield product
- 17.45 OP-8 **Jean Philippe Goddard**
From Anions to Radicals
- 18.00 IL-7 **Gwilherm Evano**
From natural product synthesis to methodology: Short stories in copper catalysis

Thursday, July 22 *Aula Convegni, Building D6, Polo delle Scienze Sociali*

Chairperson: Carmen Najera

- 9.00 IL-8 **Gregory Fu**
Palladium- and Nickel-catalyzed cross-coupling reactions of alkyl electrophiles
- 9.45 IL-9 **Friedrich Hammerschmidt**
Preparation of chiral methyllithiums and determination of their configurational stability
- 10.30 OP-9 **Jacques Maddaluno**
MeLi + LiCl in THF: One heterodimer and no tetramers

10.45 Coffee Break

Chairperson: Maurizio Taddei

- 11.15 OP-10 **Peter O'Brien**
Asymmetric Deprotonation-Trapping of *N*-Boc Piperidine
- 11.30 OP-11 **Cristina Prandi**
Superbase Promoted Synthesis of 1,3-Dienes and Their Reaction with Nitrogen Electrophiles: a Versatile Access to Aza-Heterocycles
- 11.45 IL-10 **Bernhard Breit**
 S_N2' and S_N2 -type reactions with organometallic reagents: Alternatives to enolate alkylation
- 12.30 IL-11 **Saverio Florio**
Advances in the Chemistry of Lithiated Epoxides and Aziridines: Regio- and Stereochemical Aspects

13.15 Lunch

15.00 Excursion to San Gimignano

Friday, July 23 *Aula Convegni, Building D6, Polo delle Scienze Sociali*

Chairperson: Alberto Brandi

- 9.00 IL-12 **Karl A. Scheidt**
N-Heterocyclic carbene catalysis for the generation of unusual and powerful carbon nucleophiles

9.45 IL-13 **Jonathan Clayden**
Counterintuitive carbanion chemistry: Organolithium rearrangements for asymmetric arylation at N, O or S

10.30 OP-12 **Fraser Fleming**
New Sulfinyl- and Halonitrile Exchange Routes to Metalated Nitriles

10.45 **Coffee Break**

Chairperson: Hans Rittmayer

11.15 OP-13 **Donal O'Shea**
Controlled anion migrations with mixed Li/K metal amides: General application to selective vinyl and lateral metalation

11.30 OP-14 **Renzo Luisi**
Configurationaly Stable Aziridinylolithiums by a Dynamically Controlled Reactivity

11.45 IL-14 **Koichi Mikami**
Perfluoroalkyl metal reagents: Generation, stability, and synthetic use

12.30 IL-15 **Esther Lete**
From aromatic lithiation to Palladium-mediated cyclization reactions in stereocontrolled synthesis of nitrogen

13.15 **Lunch**

14.30 **Poster Session**

Chairperson: Peter O'Brien

15.30 IL-16 **Miguel Yus**
Dilithium synthons: Applications in organic synthesis

16.15 OP-15 **Serafino Gladioli**
The potential of Friedländer condensation in the synthesis of planar chiral ligands with pyridine nitrogen donors

16.30 OP-16 **Pierre Queval**
Lithium Borylphosphides: From Structural Aspects to Reactivity

16.45 OP-17 **Cosimo Cardellicchio**
Nucleofugality of Carbanionic Leaving Groups in the Reaction of Grignard Reagents with Sulfoxides

17.00 Coffee Break

Chairperson: Marino Petrini

17.30 OP-18 Roland Appel

Nucleophilic Reactivities of Sulfur Ylides and Related Carbanions: Comparison with Structurally Related Organophosphorus Compounds

17.45 OP-19 Anna Wieczorek

Configurational Stability of Chiral Bromo- and Thio-[D1] Methyllithiums

20.30 Conference dinner

Saturday, July 24 *Aula Convegna, Building D6, Polo delle Scienze Sociali*

Chairperson: Annie-Claude Gaumont

9.00 IL-17 Ilan Marek

New stereoselective strategies for the preparation of quaternary carbon stereocenters

9.45 IL-18 Alexandre Alexakis

New applications of chiral diamines in asymmetric synthesis

10.30 OP-20 Toshiaki Murai

Thioamide Dianions: Generation and Applications as Carbanions Adjacent to a Nitrogen Atom

10.45 Coffee Break

Chairperson: Vito Capriati

11.15 OP-21 Hans J. Reich

Reaction Mechanisms of Alkyl- and Aryllithium Reagents with Carbonyl Compounds

11.30 OP-22 Florence Mongin

Deprotonative metalation of aromatic compounds using mixed lithium-cadmium 2,2,6,6-tetramethylpiperidino-based combinations

11.45 IL-19 Hideki Yorimitsu

Carbometalation of C-C multiple bonds under Chromium, Cobalt, or Rhodium catalysis

12.30 IL-20 Paul Knochel

Preparation of polyfunctionalized organometallics and stereoselective cross-couplings

13.15 Closing Remarks