Curriculum Vitae

Andrei T. Alexandrescu

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Education

Ph.D. (Biochemistry) - University of Wisconsin-Madison, 1989.
B.A. (Chemistry) - Hunter College, City University of New York, 1983.
High School - Bronx High School of Science, New York, 1979.

Research Experience

Professor, Department of Molecular and Cell Biology,
University of Connecticut-Storrs (8/12 – present).
- Atypical zinc fingers
- Metabolomics
- Mitochondria
- Bacteriophage and virus coat proteins
- Pore-forming toxins
- Response regulators in bacterial two-component systems
- Biophysical studies of amyloidogenic proteins involved in human disease:
- NMR structure determination
- Protein folding

Associate Professor, Department of Molecular and Cell Biology,
University of Connecticut-Storrs (8/06 – 7/12).
- Biophysical studies of α-synuclein
- Protein electrostatics
- Protein folding and folding intermediates

Assistant Professor, Department of Molecular and Cell Biology,
University of Connecticut-Storrs (1/00 – 8/06).
- Conserved folding mechanisms in proteins that share an oligonucleotide binding 'OB-fold' structural motif.
- Structural characterization of denatured states, in particular using NMR residual dipolar couplings.
- Structure/function relationships of agrin - a protein involved in synapse development.

Projektleiter (head of independent group), Department of Structural Biology,
Biozentrum of the University of Basel, Switzerland (1/95 - 12/99).
- NMR investigations of protein structure, folding, dynamics, and aggregation.
- Structures of symmetric protein oligomers by NMR.

Visiting Scientist, Francis Bitter Magnet lab,
MIT (6/21-8/21; 1/22-12/22)
- Sabbatical in Mei Hong's lab.

Visiting Scientist, Department of Chemistry,
Brown University (7/14-1/15)
- Sabbatical in Wolfgang Peti's lab.

Visiting Professor, Department of Chemistry,
Yale University (1/08-5/08)
- Sabbatical in Patrick Loria's lab.

Post-doctoral Fellow, Department of Biological Chemistry, supervised by David Shortle
Johns Hopkins University School of Medicine (10/92 - 12/94).
- Structure and dynamics of unfolded proteins and protein folding intermediates.

NATO-NSF Post-doctoral Fellow and OCMS Post-doc – Inorganic Chemistry Laboratory, supervised by Chris Dobson
Oxford University, England (11/89 - 9/92).
- NMR of protein folding intermediates

Doctoral Student & Research Assistant, - Biochemistry Department, supervised by John Markley
University of Wisconsin - Madison (1/85 - 10/89).
- Coupling between local structure and global stability of staphylococcal nuclease.

Graduate Student & Research Assistant, Biochemistry Department, supervised by Muttaiya Sundaralingam
University of Wisconsin - Madison (1/84 - 1/85).
- X-ray crystallography of nucleotides.

Undergraduate Research, Chemistry Department, supervised by Jackie Barton
Hunter College & Columbia University (1/82 - 6/83).
- Development of chiral Ru^{2+} $(phenanthroline)_3$ compounds used to assay the handedness of B and Z DNA.

High School
Bronx Science (9/76 - 6/79).
PUBLIC (all the institutions I've been to are public) High School in NYC encouraging science, critical thinking, and diversity. Commuted on the F and D trains from Queens (did most of my studying there). Bronx Science has nine Nobel Winners (more than China or Spain. Preppy private Boston Latin has none!). Many famous alumni including Zohran Mamdani – the new mayor of NYC!