Robert Smith

Technical Staff Scientist

CONTACT DETAILS

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PERSONAL STATEMENT

A Technical Staff Scientist with 7 years of experience developing and expressing antibodies and antibody-like proteins in academia and industry, also involved in antibody gene engineering including generating and expressing antibody fusion proteins.

WORK EXPERIENCE

Technical Staff Scientist

ABC Corporation - December 2008 – February 2010

Responsibilities:

- Participated in plasmid vector design and construction, and developed phage display libraries fusing the M13 phage and the globular portion of the vitronectin protein.
- Improved panning procedures and performed recombinant protein ELISA and phage ELISA assays to analyze protein expression and binding activity.
- Used quantitative ELISA to analyze the expression and determine the yield of different vitronectin constructs in mammalian cells and bacteria.
- Compared and selected lead candidates for the target using ELISA competition assays.
- Used mammalian cell transfections and bacterial transformation for protein production, and collaborated with the Protein Purification Department.
- Labeled proteins chemically and quantified the labeling density, and developed drug in-vitro internalization assays in different mammalian cell lines using confocal microscopy.
- Supervised, trained, and coordinated schedules of interns and two research associates working among the Molecular, Protein and Immunology Departments.

Staff Scientist

ABC Corporation - 2003 – 2008

Responsibilities:

- Whole-genome modification using synthetic DNA and site-specific recombinases [] Developing a new strategy to "change one organism to another" Creating simultaneous and multiple non-contiguous deletions and modifications over 100 kb genomic regions by.
- coli to identify specific metabolic and structural characteristics that aid in tailoring the vaccine chassis Reducing the genome of E.
- coli using a combination of traditional recombineering and synthetic biology and synthetic genomics tools Engineering robust and stable genomic expression of foreign antigenic genes in E.
- coli Intrinsic biocontainment [] Define significance and criteria for successful application of intrinsic biocontainment methods for the accidental and intentional release of engineered organisms by fostering

SKILLS

Electron Microscopy, Material Science, Materials Characterization, Matlab.

LANGUAGES

English (Native)
French (Professional)
Spanish (Professional)

INTERESTS

Climbing
Snowboarding
Cooking
Reading

REFERENCES

Reference – 1 (Company Name)
Reference – 2 (Company Name)

dialogue between policy analysts, regulatory agencies.

- my codes JCVI syn 1.0 from 1 kb synthetic cassettes using in vitro and in vivo recombination methods Sense Codon Recoding of the Synthetic cell M.
- my codes JCVI syn 1.0 [] Initiated and advanced the first experimental study on sense codon reassignment as a novel alternative to expanding the genetic code (in collaboration with Yale University) Identified and constructed orthogonal translation systems.
- to optimize the expression of multiple genes under the same promoter and terminator Compared published error-rates of high-fidelity polymerases to experimentally determined values with reference to PCR cycle numbers.

Education

Ph.D.