BB BIOVENTURES L P Form SC 13G/A February 12, 2007

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# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

#### **SCHEDULE 13G**

Under the Securities Exchange Act of 1934 (Amendment No. 1)\*

VIACELL, INC.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
92554J105
(CUSIP Number)
December 31, 2006
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
  o Rule 13d-1(c)
- þ Rule 13d-1(d)

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 ( Act ) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

<sup>\*</sup> The remainder of this cover page shall be filled out for a reporting person s initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

9

NAMES OF REPORTING PERSONS: 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY): BB BioVentures L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): 2 (a) o (b) þ SEC USE ONLY: 3 CITIZENSHIP OR PLACE OF ORGANIZATION: 4 Delaware **SOLE VOTING POWER:** 5 NUMBER OF 5,012,274(1) **SHARES** SHARED VOTING POWER: 6 BENEFICIALLY OWNED BY 0 **EACH** SOLE DISPOSITIVE POWER: 7 REPORTING **PERSON** 5,012,274(1) WITH: SHARED DISPOSITIVE POWER: 8 0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

5,012,274(1)

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

11

12.90%

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

12

PN

(1) Includes 433,333 shares issuable pursuant to warrants exercisable within 60 days of December 31, 2006.

Page 2 of 19

9

NAMES OF REPORTING PERSONS: 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY): MPM BioVentures Parallel Fund, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): 2 (a) o (b) þ SEC USE ONLY: 3 CITIZENSHIP OR PLACE OF ORGANIZATION: 4 Delaware **SOLE VOTING POWER:** 5 NUMBER OF 335,628 **SHARES** SHARED VOTING POWER: BENEFICIALLY 6 OWNED BY 0 **EACH** SOLE DISPOSITIVE POWER: 7 REPORTING **PERSON** 335,628 WITH: SHARED DISPOSITIVE POWER: 8 0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

0.87%

11

**12** 

335,628

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

PN

Page 3 of 19

9

NAMES OF REPORTING PERSONS: 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY): MPM Asset Management Investors 2000A LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): 2 (a) o (b) þ SEC USE ONLY: 3 CITIZENSHIP OR PLACE OF ORGANIZATION: 4 Delaware **SOLE VOTING POWER:** 5 NUMBER OF 25,283 **SHARES** SHARED VOTING POWER: 6 BENEFICIALLY OWNED BY 0 **EACH** SOLE DISPOSITIVE POWER: 7 REPORTING **PERSON** 25,283 WITH: SHARED DISPOSITIVE POWER: 8 0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

25,283

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

11

0.07%

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

OO

Page 4 of 19

9

NAMES OF REPORTING PERSONS: 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY): MPM BioVentures II-QP, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): 2 (a) o (b) þ SEC USE ONLY: 3 CITIZENSHIP OR PLACE OF ORGANIZATION: 4 Delaware **SOLE VOTING POWER:** 5 NUMBER OF 130,880 **SHARES** SHARED VOTING POWER: 6 BENEFICIALLY OWNED BY 0 **EACH** SOLE DISPOSITIVE POWER: 7 REPORTING **PERSON** 130,880 WITH: SHARED DISPOSITIVE POWER: 8 0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

O

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

11

0.34%

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

PN

9

NAMES OF REPORTING PERSONS: 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY): MPM BioVentures II, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): 2 (a) o (b) þ SEC USE ONLY: 3 CITIZENSHIP OR PLACE OF ORGANIZATION: 4 Delaware **SOLE VOTING POWER:** 5 NUMBER OF 14,444 **SHARES** SHARED VOTING POWER: 6 BENEFICIALLY OWNED BY 0 **EACH** SOLE DISPOSITIVE POWER: 7 REPORTING **PERSON** 14,444 WITH: SHARED DISPOSITIVE POWER: 8 0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

14,444

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

11

0.04%

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

PN

Page 6 of 19

9

NAMES OF REPORTING PERSONS: 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY): MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): 2 (a) o (b) þ SEC USE ONLY: 3 CITIZENSHIP OR PLACE OF ORGANIZATION: 4 Germany **SOLE VOTING POWER:** 5 NUMBER OF 46,089 **SHARES** SHARED VOTING POWER: 6 BENEFICIALLY OWNED BY 0 **EACH** SOLE DISPOSITIVE POWER: 7 REPORTING **PERSON** 46,089 WITH: SHARED DISPOSITIVE POWER: 8 0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

11

0.12%

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

PN

Page 7 of 19

9

NAMES OF REPORTING PERSONS: 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY): MPM Asset Management Investors 2001 LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): 2 (a) o (b) þ SEC USE ONLY: 3 CITIZENSHIP OR PLACE OF ORGANIZATION: 4 Delaware **SOLE VOTING POWER:** 5 NUMBER OF 2,715 **SHARES** SHARED VOTING POWER: 6 BENEFICIALLY OWNED BY 0 **EACH** SOLE DISPOSITIVE POWER: 7 REPORTING **PERSON** 2,715 WITH: SHARED DISPOSITIVE POWER: 8 0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

2,715

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

11

0.01%

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

OO

Page 8 of 19

NAMES OF REPORTING PERSONS:

1

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):
MPM Founders LLC

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

2

(a) o

(b) þ

SEC USE ONLY:

3

CITIZENSHIP OR PLACE OF ORGANIZATION:

4

Delaware

**SOLE VOTING POWER:** 

5

NUMBER OF 41,146

SHARES SHARED VOTING POWER:

BENEFICIALLY 6

OWNED BY 0

EACH SOLE DISPOSITIVE POWER:

REPORTING 7

PERSON 41,146

WITH: SHARED DISPOSITIVE POWER:

8

0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

	41,146
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):
	o
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):
	0.11%
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):
	OO
	Page 9 of 19

9

NAMES OF REPORTING PERSONS: 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY): Ansbert Gadicke CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): 2 (a) o (b) þ SEC USE ONLY: 3 CITIZENSHIP OR PLACE OF ORGANIZATION: 4 Delaware **SOLE VOTING POWER:** 5 NUMBER OF 20,000(1) **SHARES** SHARED VOTING POWER: 6 BENEFICIALLY OWNED BY 5,608,459(2) **EACH** SOLE DISPOSITIVE POWER: 7 REPORTING **PERSON** 20,000(1) WITH: SHARED DISPOSITIVE POWER: 8 5,608,459(2)

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

5,628,459(1)(2)

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

11

14.48%

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

12

IN

(1) Includes 20,000 shares issuable upon exercise of options within 60 days of December 31, 2006.

(2) The shares are held as follows: 5,012,274 by BB BioVentures, L.P. ( BB BioVentures ), 335,628 by MPM BioVentures Parallel Fund, L.P. ( MPM Parallel ), 25,283 by MPM Asset Management Investors 2000A LLC ( MPM Asset ), 130,880 by MPM BioVentures II-QP, L.P. ( BV QP ), 14,444 by MPM BioVentures II, L.P. ( BV II ), 46,089 by MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG ( BV KG ), 2,715 by MPM Asset Management Investors 2001 LLC ( Asset 2001 ) and 41,146 shares held by MPM Founders LLC. Also includes 433,333 shares issuable pursuant to warrants exercisable within 60 days of December 31, 2006 held by BB BioVentures. BB BioVentures is under common control with MPM Parallel and MPM Asset. BAB BioVentures L.P. ( BAB BV ), BAB BioVentures NV and MPM BioVentures I LLC ( BioVentures LLC ) are the direct and indirect general partners of BB BioVentures. MPM BioVentures I L.P. ( BioVentures LP ) and BioVentures LLC are the direct and indirect general partners of MPM Parallel. The Reporting person is a manager of BioVentures LLC and MPM Asset. MPM Asset Management II, L.P. ( AM II GP ) and MPM Asset Management II LLC ( AM II LLC ) are the direct and indirect general partners of BV QP, BV II and BV KG. The Reporting Person is a member of Asset 2001, AM II LLC and MPM Founders LLC.

Page 10 of 19

CUSIP No. 92554J105 NAMES OF REPORTING PERSONS: 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY): Luke Evnin CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): 2 (a) o (b) þ SEC USE ONLY: 3 CITIZENSHIP OR PLACE OF ORGANIZATION: 4 Delaware **SOLE VOTING POWER:** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER: 6 BENEFICIALLY OWNED BY 5,608,459(1) **EACH** SOLE DISPOSITIVE POWER: 7 REPORTING **PERSON** 0

SHARED DISPOSITIVE POWER:

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

WITH:

9

8

5,608,459(1)

5,608,459(1)

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

11

14.43%

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

12

IN

(1) The shares are held as follows: 5,012,274 by BB BioVentures, L.P. ( BB BioVentures ), 335,628 by MPM BioVentures Parallel Fund, L.P. ( MPM Parallel ), 25,283 by MPM Asset Management Investors 2000A LLC ( MPM Asset ), 130,880 by MPM BioVentures II-QP, L.P. ( BV QP ), 14,444 by MPM BioVentures II, L.P. ( BV II ), 46,089 by MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG ( BV KG ), 2,715 by MPM Asset Management Investors 2001 LLC ( Asset 2001 ) and 41,146 shares held by MPM Founders LLC. Also includes 433,333 shares issuable pursuant to warrants exercisable within 60 days of December 31, 2006 held by BB BioVentures. BB BioVentures is under common control with MPM Parallel and MPM Asset. BAB BioVentures L.P. ( BAB BV ), BAB BioVentures NV and MPM BioVentures I LLC ( BioVentures LLC ) are the direct and indirect general partners of BB BioVentures. MPM BioVentures I L.P. ( BioVentures LP ) and BioVentures LLC are the direct and indirect general partners of MPM Parallel. The Reporting person is a manager of BioVentures LLC and MPM Asset. MPM Asset Management II, L.P. ( AM II GP ) and MPM Asset Management II LLC ( AM II LLC ) are the direct and indirect general partners of BV QP, BV II and BV KG. The Reporting Person is a member of Asset 2001, AM II LLC and MPM Founders LLC.

Page 11 of 19

#### Item 1.

(a) Name of Issuer

Viacell, Inc.

(b) Address of Issuer s Principal Executive Offices

245 First Street

Cambridge, MA 02142

#### Item 2.

(a) Name of Person Filing

BB BioVentures, LP

MPM BioVentures Parallel Fund, LP

MPM Asset Management Investors 2000A LLC

MPM BioVentures II-QP, L.P

MPM BioVentures II, L.P.

MPM Asset Management Investors 2001 LLC

MPM Founders LLC

MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG

Ansbert Gadicke

Luke Evnin

(b) Address of Principal Business Office or, if none, Residence

c/o MPM Capital L.P.

The John Hancock Tower

200 Clarendon Street, 54th Floor

Boston, MA 02116

(c) Citizenship

All entities were organized in Delaware, except MPM BioVentures GmbH & Co Parallel-Beteiligungs KG which was organized in Germany. All individuals are United States citizens.

(d) Title of Class of Securities

Common Stock

(e) CUSIP Number

92554J105

# Item 3. If this statement is filed pursuant to §§240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a:

Not applicable

Page 12 of 19

# Item 4. Ownership

(a) Amount Beneficially Owned:

BB BioVentures, LP MPM BioVentures Parallel Fund, LP MPM Asset Management Investors 2000A LLC MPM BioVentures II-QP, L.P MPM BioVentures II, L.P. MPM Asset Management Investors 2001 LLC MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG MPM Founders LLC Ansbert Gadicke Luke Evnin	5,012,274(1) 335,628 25,283 130,880 14,444 2,715 46,089 41,146 5,628,459(2)(3) 5,608,459(2)
(b) Percent of Class:	
BB BioVentures, LP MPM BioVentures Parallel Fund, LP MPM Asset Management Investors 2000A LLC MPM BioVentures II-QP, L.P MPM BioVentures II, L.P. MPM Asset Management Investors 2001 LLC MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG MPM Founders LLC Ansbert Gadicke Luke Evnin  (c) Number of shares as to which the person has:  (i) Sole power to vote or to direct the vote	12.90% 0.87% 0.07% 0.34% 0.04% 0.01% 0.12% 0.11% 14.48% 14.43%
BB BioVentures, LP MPM BioVentures Parallel Fund, LP MPM Asset Management Investors 2000A LLC MPM BioVentures II-QP, L.P MPM BioVentures II, L.P. MPM Asset Management Investors 2001 LLC MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG MPM Founders LLC Ansbert Gadicke Luke Evnin Page 13 of 19	5,012,274(1) 335,628 25,283 130,880 14,444 2,715 46,089 41,146 20,000(3) 0

# (ii) Shared power to vote or to direct the vote

BB BioVentures, LP	0
MPM BioVentures Parallel Fund, LP	0
MPM Asset Management Investors 1998 LLC	0
MPM BioVentures II-QP, L.P	0
MPM BioVentures II, L.P.	0
MPM Asset Management Investors 2001 LLC	0
MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG	0
MPM Founders LLC	0
Ansbert Gadicke	5,608,459(2)
Luke Evnin	5,608,459(2)
(iii) Sole power to dispose or to direct the disposition of	
BB BioVentures, LP	5,012,274(1)
MPM BioVentures Parallel Fund, LP	335,628
MPM Asset Management Investors 2000A LLC	25,283
MPM BioVentures II-QP, L.P	130,880
MPM BioVentures II, L.P.	14,444
MPM Asset Management Investors 2001 LLC	2,715
MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG	46,089
MPM Founders LLC	41,146
Ansbert Gadicke	20,000(3)
Luke Evnin	0
(iv) Shared power to dispose or to direct the disposition of	Ü
BB BioVentures, LP	0
MPM BioVentures Parallel Fund, LP	0
MPM Asset Management Investors 2000A LLC	0
MPM BioVentures II-QP, L.P.	0
MPM BioVentures II, L.P.	0
MPM Asset Management Investors 2001 LLC	0
MPM BioVentures GmbH & Co. Parallel-Beteiligungs KG	0
MPM Founders LLC	0
Ansbert Gadicke	5,608,459(2)
Luke Evnin	5,608,459(2)
Dake Dvilli	3,000,137(2)
(1) Includes 433,333	
shares issuable	
pursuant to warrants	
exercisable within	
60 days of	
December 31, 2006.	

(2) The shares are held as follows: 5,012,274 by BB BioVentures, L.P. (BB

BioVentures ),

335,628 by MPM

**BioVentures Parallel** 

Fund, L.P. (MPM

Parallel ), 25,283 by

MPM Asset

Management

Investors 2000A LLC

( MPM Asset ),

130,880 by MPM

BioVentures II-QP,

L.P. ( BV QP ), 14,444

by MPM

BioVentures II, L.P.

( BV II ), 46,089 by

MPM BioVentures

GmbH & Co.

Parallel-Beteiligungs

KG (BV KG), 2,715

by MPM Asset

Management

Investors 2001 LLC

( Asset 2001 ) and

41,146 shares held by

MPM Founders LLC.

Also includes

433,333 shares

issuable pursuant to

warrants exercisable

within 60 days of

December 31, 2006

held by BB

BioVentures. BB

BioVentures is under

common control with

MPM Parallel and

MPM Asset. BAB

BioVentures L.P.

( BAB BV ), BAB

BioVentures NV and

MPM BioVentures I

LLC ( BioVentures

LLC ) are the direct

and indirect general

partners of BB

BioVentures. MPM

BioVentures I L.P.

( BioVentures LP )

and BioVentures

LLC are the direct

and indirect general

partners of MPM

Parallel. The

Reporting person is a manager of BioVentures LLC and MPM Asset. MPM Asset Management II, L.P. ( AM II GP ) and MPM Asset Management II LLC ( AM II LLC ) are the direct and indirect general partners of BV QP, BV II and BV KG. The Reporting Person is a member of Asset 2001, AM II LLC and MPM Founders LLC.

(3) Includes 20,000 shares issuable upon exercise of options within 60 days of December 31, 2006.

Page 14 of 19

#### Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following.

#### Item 6. Ownership of More than Five Percent on Behalf of Another Person

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

Not Applicable

#### Item 8. Identification and Classification of Members of the Group

Not Applicable

#### Item 9. Notice of Dissolution of a Group

Not Applicable

#### Item 10. Certification

Not Applicable

Page 15 of 19

#### **SIGNATURE**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 9, 2007

BB BIOVENTURES L.P. MPM BIOVENTURES PARALLEL FUND, L.P.

By: BAB BioVentures L.P., By: MPM BioVentures I LP,

its General Partner its General Partner

By: BAB BioVentures N.V., By: MPM BioVentures I LLC,

its General Partner its General Partner

By: /s/ Ansbert Gadicke By: /s/ Luke Evnin

Name: Ansbert Gadicke Name: Luke B. Evnin Title: Manager Title: Manager

MPM ASSET MANAGEMENT MPM BIOVENTURES II-QP, L.P.

INVESTORS 2000A LLC

By: MPM Asset Management II,

L.P.,

By: /s/ Luke Evnin its General Partner

Name: Luke B. Evnin

Title: Manager By: MPM Asset Management II

LLC,

its General Partner

By: /s/ Luke Evnin

Name: Luke B. Evnin

Title: Manager

MPM BIOVENTURES II, L.P. MPM ASSET MANAGEMENT INVESTORS 2001 LLC

By: MPM Asset Management II,

L.P.,

its General Partner By: /s/ Luke Evnin

Name: Luke B. Evnin

By: MPM Asset Management II Title: Manager

LLC,

its General Partner

By: /s/ Luke Evnin

Name: Luke B. Evnin

Title: Manager

Page 16 of 19

MPM BIOVENTURES GMBH & CO. PARALLEL-BETEILIGUNGS KG

MPM FOUNDERS LLC

By: /s/ Luke Evnin

By: MPM Asset Management II LP, in its capacity as the Special Limited Partner

Name: Luke B. Evnin

Title: Manager

By: MPM Asset Management II LLC, its

General Partner

By: /s/ Luke Evnin

Name: Luke B. Evnin

Title: Manager

By: /s/ Ansbert Gadicke By: /s/ Luke Evnin

Name: Ansbert Gadicke Name: Luke B. Evnin

Page 17 of 19

#### **EXHIBIT A**

#### JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, the undersigned agree to the joint filing on behalf of each of them of a statement on Schedule 13G (including amendments thereto) with respect to the Common Stock of Viacell, Inc. and further agree that this agreement be included as an exhibit to such filing. Each party to the agreement expressly authorizes each other party to file on its behalf any and all amendments to such statement. Each party to this agreement agrees that this joint filing agreement may be signed in counterparts.

In evidence whereof, the undersigned have caused this Agreement to be executed on their behalf this 9<sup>th</sup> day of February, 2007.

BB BIOVENTURES L.P. MPM BIOVENTURES PARALLEL FUND, L.P.

By: BAB BioVentures L.P., By: MPM BioVentures I LP, its General Partner its General Partner

By: BAB BioVentures N.V., By: MPM BioVentures I LLC, its General Partner its General Partner

By: /s/ Ansbert Gadicke By: /s/ Luke Evnin

Name: Ansbert Gadicke Name: Luke B. Evnin Title: Manager Title: Manager

MPM ASSET MANAGEMENT MPM BIOVENTURES II-QP, L.P. INVESTORS

By: MPM Asset Management II,

By: /s/ Luke Evnin its General Partner

Name: Luke B. Evnin

Title: Manager By: MPM Asset Management II

LLC,

its General Partner

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

MPM BIOVENTURES II, L.P. MPM ASSET MANAGEMENT INVESTORS 2001 LLC

By: MPM Asset Management II,

L.P.,

2000A LLC

its General Partner By: /s/ Luke Evnin

Name: Luke B. Evnin

By: Title: Manager

MPM Asset Management II

LLC,

its General Partner

By: /s/ Luke Evnin

Name: Luke B. Evnin

Title: Manager

Page 18 of 19

MPM BIOVENTURES GMBH & CO. PARALLEL-BETEILIGUNGS KG

MPM FOUNDERS LLC

By: /s/ Luke Evnin

By: MPM Asset Management II LP, in its capacity as the Special Limited Partner

Name: Luke B. Evnin

Title: Manager

By: MPM Asset Management II LLC, its

General Partner

By: /s/ Luke Evnin

Name: Luke B. Evnin

Title: Manager

By: /s/ Ansbert Gadicke By: /s/ Luke Evnin

Name: Ansbert Gadicke Name: Luke B. Evnin

Page 19 of 19